Fairchild C-82 Packet C-119 Flying Boxcar



Alwyn T Lloyd



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Fairchild C-82 Packet and C-119 Flying Boxcar © 2005 Alasm T Lloyd

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Title page: C-119C-19-FA, s/n 50-136, was in a line of 443rd TCG aircraft taxyling out at Rhein-Main AB, West Germany. The black anti-corrosion paint on the belly ran the full length of the aircraft. C N Valertine

This page: This C-118C-13-FA, air 48-129, was taking off from Ashlys AR, again. The electral relationed its outboard horizontal stabilizer tip extensions. As indicated by its Blau-White quartered nose markings, the aircraft was assigned to the 36th/817th Cric. 482rd TCW. Compare the differences in the belly anti-corrosion paths with that of the aircraft on the freed cover. Also note the black anti-corrosion paths with off the R-4500 engines. (SPRINITION)

Introduction and Acknowledgements

To combat one has presented among sense and supplies to the combat one has presented among sense and supplies to mind a combat one has presented among sense and presented among sense and sense objects of ment for comping lighter, see dother sense objects that as bornber, During lighter, see dother sense objects that as bornber, During lighter, see dother sense of making presents and making presents making making presents making making

operations efficient, and so, unsurprisingly, several nations experimented with the concept, German design efforts resulted in the Arado Ar224, which had a pool and boom-type fuse-lape with a high wing, and the Cotha Go 242, a high wing, between the Cotha Go 242, a high wing, and the Cotha Go 242, a though a high wing, and the Cotha Go 242, a though a high wing, and the Cotha Go 242, a find the Cotha Go 242, and a find

sections obscript, odor of the latter being subsequently converted into powered transports. Likewise, the Japanese developed a pair of this boomed end-loading aircraft -one a glider and the other powered. The Kokusai Ku-7 Manazuru (Crane) was a twin-boomed glider with a central fueblage pod that had a hinged door built into it, while the powered Kokusai Ku-105 Ottos (Phoenik) was developed as a means of 100 ottos (Phoenik) was developed as a means of

Unton (Proency was developed as a means or hauling badly needed fuel from Sumatra to the Japanese home islands. The British were also developing endloading

alcraft during the early stages of World War Two. The Airspeed Horsal it was the first operational glider to join the RAF's inventory, while the General Aircraft Limited GAL 49 Hamilcar, was the largest and heaviest glider employed by the Allies during the conflict.

In 1944, General Aircraft designed and built the first powered British endloader known as the GAL 58 Hamilicar X. The RAF ordered 100 of these aircraft to serve in the war in the Pacific; however the war concluded and production

was limited to only 20 examples.

In the USA, an impending aluminum shortage encouraged aircraft manufacturers to consider the use of alternative materials in new designs.

The Curtiss C-76 Caravan was a wooden twin-engined, tricycle-gear, high-wing transport, with a cockpit mounted on top of the fuselage, whose nose hinged upwards threetly permitting straight-in loading from trucks. While meeting its operational requirements, it never saw operational service. The Waco CG-4A Haig/Hadrian assault glider was vastly more successful, towed by either a C-46 or a C-47, their upward-hinging noses delivered thousands into battle.

Designed by Willem D Van Zelm, Martin patented the Model 240, a four-engined heavy troop/cargo transport, and the Model 241, a twin-engined cargo transport. Both sixrart were of the twin-boom configuration and incorporated a door at the aft end of the fuselage. Part of the system included a hydraulic ramp that could be towered to ground level or suspended at truck-bert heinfelt for Galitate fuseling.

These designs, though never built, were more or less contemporary with Fairchild's C-82 and featured similar solutions. Solutions which were to set the pattern for the general layout and operation of many subsequent tactical transports.

During World War Two, the bulk of the US airiff capability was by aircraft which lacked some, or all, of the achantages of these some, or all, of the achantages of these designs. Carpo loading of the Curliss C-46 Commando and Deuglas C-47 Skytrain was officially at clifficult at best when making the 90° turn into the the sastage. The conventional landing gaen added to the profesion when the carpo had to be a moved uphill along the sleping floor. The Douglas C-54 Skytrain to flored a lovel floor to loading, but required a forkill to load assist in loading, but required a forkill to load and unload it.

Fairchild C-82 Packet In 1941, the US Army requirement for a freight

currier that would affect a large, uninterruption curp hold with direct across for ground-level footbrig resulted in the Fatchist Model Tr. This could be considered to the Fatchist Model Tr. This Design Selens Model Selens and Co. C42, and the name Packet. The twin boomed, Ingit-wing, posseds talkedge areast hard a haselesse with a possed selens of the consideration of the consideration provided by an jet of 2 (100p Prait & Whitney R. 2000-08 radial engines driving Hamilton (Sandard treve-beload consistent present, lydrostrate of the C42 of the C42 of the C42 of the hop pilots, mayagare, radio operator, and one for full by the C42 of the pattern for full by the C42 of the C42 of the pattern for full by the C42 of the C42 of the C42 of the full by the C42 of the C42 of the full by the C42 of the C42 of the full by the C42 of the C42 of the full by the full by the C42 of the full by the

Fairchild C-119 Flying Boxcar

During 1947, an XC-82A, s/n 45-57769, was modified to lower the flightdeck and move it forward, delete the ventral fins, and install more powerful 2,650hp R-4360-4 engines. Some additional windows were added to the nose to enhance drop zone visibility. Thus modified, the airframe was redesignated as the C-119A. On 17 December 1947, this aircraft made a first flight that lasted 1 hour and 45 minutes.

In their own way, each of these early heavy-relia aircraft pawe the way for endoading military transports. Their high wing designs placed the cargo foot colser to the loading-vehicles' equipment and high tails permitted uncluttered uncluttered equipment and high tails permitted uncluttered and colses to the cargo area. While underpowered and and flown overgrossed, the C-82 and C-119 let of the cargo air air and air

From these aircraft came the Fairchild C-123 Provider, an interim transport aircraft, and the venerable Lockheed C-130 Hercules – which, half a century on, remains the ultimate endloader for tactical operations.

Acknowledgements

No book of this scope could be accomplished without the assistance of a multitude of people and access to numerous data repositories. It is with these facts in mind that this author gratefully acknowledges the support provided by

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torian: Museum of Flight, Seattle: NASA History Office: National Air and Space Museum; Naval Historical Center; Office of Air Force History; Pacific Air Forces Historian: RCAF Photo Library: Steward-Davis, Inc; Strategic Air Command Historian; Tactical Air Command Historian: Trans World Airlines: United Airlines:

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the manuscript a sanity check. Lt Col David H Anderson had flown KC-97s in SAC, then came to Boeing and joined the Reserve where he flew the C-119. He called them 'Texas Wheelbarrows'. After fiving aircraft with significantly better performance he believed he had taken a big step backwards and was not to impressed with the C-119's structure, systems, and marked lack of power that resulted in marginal engine-out capabili-

Dedication This volume is dedicated to the men and women who designed, built, operated, and maintained these aircraft. And, especially to the 73rd Troop Carrier Squadron, 932nd Troop Carrier Group, 434th Troop Carrier Wing, Scott AFB. IL who introduced this author to the C-119. It was with this unit he dropped his boyish dream of being a fighter pilot and yearned for multi-engined aircraft. One would count 12 blades, feel a shudder, and see a plume of smoke as each engine roared to life. Most memorable, was the flight aboard Abe 22 flying had one of the ADFs tuned to WBBM in Chicago and listened to Rachmaninoff's 2nd Piano Concerto as we climbed out into the starstudded darkness.

The sole XC-82, s/n 43-13202, as she appeared at Wright Field, OH, on 4 June 1946. The forward crew door was open and an access ladder was hung from the door sill. The tall number was repeated under the left wing and the nose was inscribed Packet The Flying Boxcar, replete with a drawing of the latter, P.M.Bowers

alfetta (2007)



The C-82 Packet



The Fairchild C-82 Packet is a twin-engined, their borned, high wing, land monoplate of all metal contraction, designed for the use as a cargo carrier, trooplysmatroop transport, and a cargo drop simplane. The fuselage structure is often immonocogn construction of retractabile ticycle landing gear system is installed. The landing gear system is installed. The winter common contraction of sufficient height above this ground to permit easi of loading of the system of the permit calls of loading of the system of the permit calls of loading of the system of the permit calls of the system of the system

C-82 Principal Dimensions and Weights		
Wingspan	1068 5in	
Fuselage length	60t 6Nin	
Overall length	77ft 1in	
Height	26ft 4in	
Wing Area	1,40085	
Empty weight	31,498 lb	
Basic weight	34,098 lb	
Design weight	50,000 lb	
Combat weight	40,265 lb*	
May TOW	54 000 b+	

* Basic Mission; † Limited by performance

The cargo compartment had a rectangular cross-section that permitted the carrying of a wide variety of equipment, while the tricycle

landing gear effected a level floor to facilitate obding. The floor height was four freet above the ground-induce height was four freet above the ground-induce height height. Large claimsheld doors seving cultivously through an are of 90° offering complete clearance for leading. Paratrophysical control of the composition of the properties of the paratrophysical control of the para

C-82 Cargo Compartment Dimensions

Height	8ft Oin	
Width	8ft Oin	
Length	38ft 5in	
Cargo Floor Area	3000"	

Early Army Interest

In 1934, Fairchild had successfully demonstrated to the Army the XC-31, single-engined, high wing, conventional-geared transport with a large truckbed-height floor and 58 wide doors. The Army envisioned a better transport as

early as December 1941. However, perceived of shortages of strategic materials, particularly smetal, drove the idea for an all-wood transport much like the Curtiss C-76 Caravan. At the behest of General of the Army Henry H 'Hap'

While having similar lines – twin boomed, twinengined, podded haselage – the performance of the Lotcheed P-30M Ughtning and Fairchild C-82 Packet was markedly different. Here the P-36 was employed as a photo chase plane for one of the North American C-82N-NTs.

Arnold, Fairchial proceeded with a transport design by their chief engineer, Armand J Thiebold. He made the preliminary sketches for he aircraft that December 18-11 (Dr. 10 November 1941, 10 no November 1941, 10 nove

A Desperate Reginning

With the end of World Wair Two in sight, and for what appear to be political reasons, Fairchild searched for a new face in their management structure who might assure their building of the C-82. Downsizing after the war could have spelled the demise of the aircraft manufacturer. Fairchild obtained none other than the famed race pilot of the 1930s, Bennie Howard who had flown Mr. Addison, Re. and 68804186646.





This was the prototype Packet, XC-82-FA, s/n 43-13292, revealing its distinctive lines that would continue throughout the series of aircraft. Museum of Flight

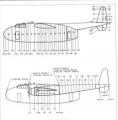
Details of the nose markings on the XC-82 reveal the name Packet and a winged railroad boxcar with the words "THE FLYING BOXCAR" beneath. To the rear were a Douglas A-26 Invader and a Douglas A-20 Mavec, P M Bowers

Howard reported to Hagaritone, Mayland, where he was govern a minimal briefing on the new ariptane before commencing the tast less. The core were not have been also also the second of the core were not have been as the control of the core were not been as the control of the core were not control for better verifitation during the hot weather. Second of the core that our not a very control of the core of the cor

to Saipan in 1944 as part of the test program. An install contract called for the production of 100 C-82As, with deliveries beginning in late 1945 - too late to see service in World War Two. A second contract was let for 100 more of these aircraft. In addition to Fairchild in Hagerstown. MD, a second manufacturer was to produce the C-82. A new production line was established at

Below left: The fuselage, nacelle, and boom stations are shown in this figure. Below right: These side, plan, and section views.

show the available cargo volume areas within a C-82, USAF 32840AC





the North American Aviation plant in Dallas, TX. and a contract for 782 C-82Ns was issued. Only three C-82Ns were completed when the contract for the remaining C-82Ns was terminated on VJ-Day. Fairchild built a total of 220 C-82As between 1945 and September 1948.

The C-82 entered operational service in May 1945, and the production run of 223 airplanes. was completed in September 1948. The C-82 was the first Allied endloading aircraft produced in quantity. From 1946, most of the C-82As served in troop carrier units in the Tactical Air Command (TAC). Some of these aircraft were allocated to the Military Air Transport Service (MATS) for use by the Air Rescue Service. Strategic Air Command (SAC) also operated the Packets as base support aircraft for their bomber groups - at its peak having eleven of these aircraft within the command in 1949.

Fairchild C-82 Packet

The C-82 Packet featured clamshell doors in the aft fuselage that permitted ease of loading with its low floor, and allowed parachute delivery of troops or supplies in a matter of seconds. The airplane was capable of carrying a cargo load of 15,000 lb, about double that of the C-47.

Below left: This figure reveals the C-82 radio

Below right: A total of 10 paratainers were carried by the C-82's aerial delivery system located near the aircraft's center of gravity.

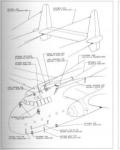


C-82 fuselage components. 4. Instrument panel

- 1. Nose landing gear 2. Hydraulic system - nose section 3. Flight control columns
- 5. Crew seats 6. Windshield wipers
- 7. Manual radio compass antenna ADF Loop 8. Astrodome 9. VHF command radio set antenna
- 10. RC-103 blind landing antenna 11. Air scoop - heating & ventilation system 12. Communications equipment 13. Automatic radio compass radio antenna -
- ADF loop 14. Propeller anti-Icing tank

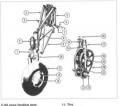
15. Reserve oil tank (Airplanes s/n 44-22959 -44-229893

- 16. Automatic pilot servo motors 17. Type G-1 O₂ cylinders 18. Type A-17 fire extinguisher
- 19. Litter installation 20. Aerial delivery installation 21. O₂ filler compartment
- 22. Troop seat installation 23. Type A-17 fire extinguisher 24. Navigator/Radio operator worktable
 - 25. Radio beacon (IFF) antenna 26. Type J-1 O₂ cylinders 27. Type A-2 fire extinguisher
 - 28. Lavatory equipment 29. Automatic pilot equipment 30. Chemical disposal toilet





Fairchite C-82 alifettin (2007)





components.

- 1. Torque links 2. Shimmy damper
- 3. Upper truss tie 4. Upper truss 5. Brace tube
- 6. Retracting arm 7. Locking link
- 8. Emergency extension shock absorber
- 9. Lower truss 10. Shock strut

12. Wheel

- 14. Actuator
- 16. Actuator tie support 17. Actuator compression beam
- 18. Large sprocket 19. Adjustment pivot
- 20. Chain 21. Driver
- 22. Torque shaft 23. Small sprocket

C-82 main landing gear

- 1. Actuator tie support 2. Retracting mechanism support
- 3. Actuator 4. Cross tube 5. Emergency extension shock
- absorbers 6. Connecting link
- 7. Upper hydraulic lines
 - 8. Upper truss 9. Shock struts



- 12. Wheel and tire 13. Drag strut 14. Torque shaft
 - 15. Small sprocket 16. Adjustment pivot 17. Chain
 - 18. Locking link 19. Down-lock latch
 - 20. Retracting arm



The normal crew of five consisted of: pilot co-pilot, navigator, radio operator and crew chief/flight mechanic.

Possible C-82 Personnel / Cargo Loads

Litters Attendants 2 350 lb each 15 x Army paracans 1 x M2A3 75mm Howitzer 3,500 b 1 v M3A1 75mm Howitzer 2.089 b 1 x M-4 37mm our 1 x M-2 40mm anti-aircraft gun & carriage 6.400 lb 1 x 37mm anti-tank gun & motor carriage 5,500 lb 1 x M2A1 105mm gun 4.340 b 9.120 lb



Above left: This low-angle profile shot of C-82-FA. s/n 44-22962, reveals the various skin panels, belly antennas, cowl flaps, and engine exhaust manifold. Note how the manifold protrudes aft a the cowl flaps, then exits below the wing leading edge, Via Peter M Bowers

Left: This low-angle profile shot of C-82A-FA, six 45-57804, reveals its CQ-804 buzz number, production number, 174, standard USAF marking, and unit markings on the nose and tall A black anti-corresion paint was applied to the belly. Also of interest are the underwing radio altimiter antennas, cabin heater heat exchange on the exhaust, and additional antennas under the forward fuselage. USAF@BRETEd

Structure

The semi-monocoque, tension-field structure aluminum fuselage houses the nose oper, has a raised flightdeck, a capacious aft cabin with a level floor at truck-bed height, a forward access door on the left, and a pair of clamshell aft doors with integral inward opening troop doors. The latter permitted simultaneous paratroop iumps from either side of the aircraft. The clamshell doors could be removed for heavy equipment drops. The floor of the forward main cabin has a bomb bay-like doors installed for dropping paracans. The paratainer box is located between Stations 319 and 391. A section of floor panel covered the paratainer box. Seven longitudinal beams support the cargo deck that is constructed of plywood. Cargo tiedown rings are spaced in 20-inch squares along the center of the cargo deck floor. The fuselage is attached to the wing center section by four large boits. Spacing for the fuselage frames is 35 inches, except for the main spar are spaced at 72 inches. The fuselage is divided into six major sections: main body, sides upper front, upper rear, nose compart-

The wings of the C-62 are semi-monocoque, tereion-feld structures that are fully careflevered with an invented aud design to shorten the main gas smats white retaining the catchin height. The camber of the wings is tapered from root to tip. Each outboard wing panel has a flag and a pair of alerons attached to the rear spar. Wingtip cape are attached outboard on the wings. The

Tip: rgr. C-22A-FA, in n 40-65, was the last flacibilities of the record of the record

Corns sint: Fairchild damonstrated C-82A-1-FA six 66-22959 (first of the series), in its chromate green finish. Note the wing walk configuration (differing from the Fairchild-built Packets) Large mass balance arms were installed on the elevator and rudders. Note the large loop antenna, followed by the navigator's blister. RC-103 localizer antenna, and ADF football antenna on top of the fuselage. An IFF antenna was installed beneath the left and right forwardmost cockelt windows. While classified as an all-metal aircraft, the flight controls were fabric covered. A pair of mass balance weights may be seen on top of the elevator. Compare the shape of the walkway areas on the North Americanbuilt C-82 with those on the Fairchild-built Packet on page 10, Boeing Archives NAA1046

Right One of three North American-built C-82Ns was taying at the Fort Worth, TX, field. All of the C-82Ns were carnouflaged. North American via







Fairchild C-82 & FEME (2007)





countryside on a test flight. The black wing walkway stripes are visible. Via P M Bowers Left: C-82A-30-FA, s/n 44-23048 was captured

just after lift off. Note the open troop doors for cabin ventilation. The buzz resmiter appeared is the nose and beneath the left wing. An ADP sense antenna may be seen under the forward fuseslags. The number 02 all of the prop exeming line indicates that this was the 92nd Packet built. USAP.

Bolow with A Firestone tracked landling gear was installed on EC-BJA, sin 45-87746. The 'E' prefix was to designate the alreraft as exempt, meaning exempt from routine technical orders. Similar tracked gear were installed on a Beeling B-00 and a Convair B-04. Texts showed that, when used on the rough fletch the gear was intended to operate from, the tracks became jammed with sold. W T Larking.



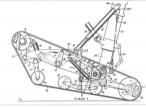
alfetta (2007



Above: MPs guarded the tracked-gear EC-82A. Note the flight test camera mounted beneath the aft fuselage. W.J. Balogh via MSgt D.W. Menard

Right: This patent drawing by Alfred A Gassner depicts the tracked gear components at rotation on take-off. Farchild

Biox: EC-82A, s/n 45-57746, was in the flare just gote is touchdown at the Happerstown Airport. Fight test camerae were mounted beneath the testings to cepture the operation of the tracked gear. Farchiad Photo D-1500 USAF 325-35AC via Unio Technologies Archives





Fairchild C-82 MFESTER (11007)









From top:

C-82A, s/n 44-23004, carried its CO-604 buzz number on its booms aft of the national insignia. It shared the ramp at Wright Field, OH with 8-29 44-68658, a C-47, and a pair of AT-11s. P M Bowes

In transition markings, red bars were added to the national insignia, but the CG-004 buzz number was applied to the booms. The aircraft was photographed at Wright Fleld with skis on all three landing gears. Via John Lomez

C-82A, xin 44-23004, photographed after September 1947 when the UBAF became a service co-equal with the Army and Kiny, reveals its red-barred national insignia and UNITED STATES AIR FORCE lettering on the fusedage. The aircraft was equipped with skis set the main gear. PM Bowers

C-82A-1-FA, sin 44-2261, shows how the spray from the main goar wheels partially covered the buzz numbers on the tailboom. The blotches on the forecast in the forecast fuselage must have been the result of touch-painting. A small moveable window may be seen in the trapezoidal window in the forerard corner of the cockpit. Blosing Historical Archives NAA1053

wings incorporate a twist and washout to preclude wingtip stalling. A D-duct is incorporated into the wing leading edge for thermal anti-cing. The inverted gull wing raised the fuselage and allowed for shorter landing gear. For simplicity, the tapered cylindrical

booms, vertical fins, rudders, ventral fins, and outboard stabilizer tips are interchangeable let and right. The booms are joined with the horzontal stabilizer with its elevator. Fourteen circular windows are installed in

the main cabin, equally spaced and mounted along the airplane mid-water line. Another such window is installed at the top of each of the troop doors located in each of the cargo doors.

Engines and Propellers A pair of Pratt & Whitney R-2800-85 engines

equipped with a single-stage, two-speed to bosupercharge powered most of the C-82.4 sea level, the engines delivered 2,100thp 2,800rpm for five minutes. The XC-82 was powered by R-2800-34 engines, whereas the fis ten production aircraft were equipped with R-2800-32 radials.

White identical tests were conducted using the con

White identical tests were conducted user Curtiss Electric reversible propellers and Henton Standard hydromatic propellers, prodution aircraft were equipped with three-biddi-Hamilton Standard 33E60 propellers with a 13 2in diameter. The propellers are of the costant-speed, full-feathering, hydromatic bys

The air induction system for the engines has a scoop mounted on top of each nacelle. The inlet has three operating positions: direct rate air, filtered air and hot air.

Fuel and Oil Systems The C-82 operated on 100/130 octane grade

fuel. An independent fuel system is incorporated for each engine. Collapsible, bladde type fuel cells are installed CHITICAL

Right This factory shot shows how a 1%-ton truck could be loaded into the C-82. The cargo compartment was designed to fit the size of most standard-sized military vehicles of the day.

Below: This C-82N was photographed during retation at take-off. Note the open sliding window for the co-pilot. In the background are a North American B-25 Mitchell, Curtiss C-46 Commando, and Douglas C-45 Expeditor.

Fuel Tanks		C-82	C-82N
Outboard Wing Inboard Wing	2 tanks 2 tanks	1,262gal 1,338gal	1,506.0ga 1,529.2ga
Total	4 tanks	2,600gal	3.052.200

A 55-calon oil tank is located aft of each engine frewall.

Flight Controls The primary flight controls of the C-82 consist

of an elevator on the trailing edge of the center portion of the horizontal stabilizer, a pair of rudders attached to the rear spars of the vertical fins, and two allerons attached to the rear spars of each outboard wing panel. The secondary controls consist of inboard and outboard flaps located on either side of each boom, and trim tabs on the elevator, each rudder, and the right inboard alleron. The flaps are NACA two-seqment slotted devices. The inboard allerons droop when the flaps are lowered. The primary

A cable-driven system is employed for the primary fight controls and the trim tabs. The



Landing Gear System

With the exception of the brake system, all other landing gear systems are electrically powered. The nose gear retracts into a well forward of the cockpit, while the main gear retracts into each boom. Each gear strut accommodates a single tire.

Cleveland Pneumatic No 8358 dual oleo struts are installed on the main gear while a single Cleveland Pneumatic No 8357 oleo

system mounted to the front of the struts to The nose gear is non-steerable, and direc-

tional control is achieved through differential braking and differential power. The nosewheel is unloaded by applying up elevator, allowing the strut to extend, thereby disengaging the centering cams. With the cams disengaged, the wheel casters in whichever direction it is controlled.





C-82N-NT, s/n 45-25436, was the first of three such aircraft built by North American. The massive nose gear wheel and tire are identical to those on the main gear. The placard centered on the lower portion of the door states 'FIRE EXT, INSIDE', indicative of the fire concerns on these aircraft.



C-82N-NT, s/n 45-25436. Visible is the fire extinguisher on the inside of the forward entry door. A propeller warning placard appeared next to the door lock lever on the left beneath the fire bottle. An IFF antenna was installed beneath the cockpit window. The web troop seats are visible inside the aircraft. Details of the sheeetmetal ladder are also evident. North American

A Houde No A-10818 shimmy damper is installed on the nose gear strut. The nosewheel is free to swivel through an arc 62° either side of neutral.

The main pear wheel brakes are operated by a pair of 1,000psi hydraulic systems with an accumulator mounted in each boom. The systems are cross-connected so that each system powers a set of brakes in each landing gear. one hydraulic system failure. Hayes No 2-258 hydraulic expanding tube brakes are installed on Fairchild C-82s 44-22959 through 45-57746 and 45-57765 through 48-587, and all three North American C-82Ns. Aircraft 45-57747 through 45-57764, those equipped with tracked landing gear, are equipped with Goodyear

Hayes Industries 56-inch diameter wheels and Type I, 56-inch, 16-ply smooth contour tires are installed on each main gear. A Goodyear 44-inch diameter wheel and Type I, 44-inch, 10-ply, smooth contour tire is installed on the

nose gear All landing gear doors are operated through direct mechanical linkage to the landing gear retracting mechanisms. While the main gear doors remain open with the gear extended, the nose gear doors close after the gear has com-

pleted its extension cycle. A gear warning system consists of three green and three red lights to indicate whether gear is up or down, and a warning horn that sounds to prevent the pilot from inadvertently landing without the gear down and locked.

Mission Equipment

Canvas seats along each side of the main cabin are provided for up to 41 paratroops. When not in use, the seats are folded up and secured to the sidewall.

A %-inch diameter galvanized static line cable is installed on each side of the main cabin. For stowage the cables are coiled and attached at the aft end of the fuselage. For use, the cables are uncoiled and attached to fittings

A monorail aerial delivery system installed in

the aircraft permitted the delivery of up to 15 Army paracans weighing up to 350 lb each. The aerial delivery rack was installed between Body Stations 319 and 391. This system could be operated either from the cockpit or the jumpmaster's station. When not in use, the paratainer racks were stowed along the top of

A total of 13 posts could be installed in the main cabin to support up to 34 litters when the aircraft was employed for aeromedical evacuation operations

A three-step entrance ladder is stowed in the forward fuselage by the cargo door. The ladder hangs from the beam at the cargo door and rests against the fuselage skin Two 16ft-long metal loading ramps are car-

ried on the aircraft. The ramps hook into the outer edge of the cargo door sill and may be spaced to accommodate various loading conditions. A pair of loading support lacks are provided for installation under the aft fuselage during loading operations. A set of 26 engine/ordnance tie-down fittings

are installed along the centerline beam of the cargo floor. Another 88 cargo tie-down fittings are installed in a 20-inch grid pattern on the

C-82s were also capable of towing gliders. Initially the aircraft were equipped with two lugs installed in the end of the booms, each permitting towing of two 7,000 lb gliders, or a single 18,000 lb glider when the aircraft gross weight

did not exceed 42,000 lb. Later production airplanes were equipped with a tow lug mounted on the aft lower portion of the fuselage. The new lug enabled the aircraft to pull a 30,000 b

Electrical System The electrical system on the C-82s consists of

System

a single wire, 24-volt DC installation grounded through the airplane structure. The basic system incorporates a storage battery, inverters two engine-driven generators, two reverse-cus rent relays, and two voltage regulators. In addition, there is an external power circuit and at auxiliary powerplant. The latter could be employed both on the ground and in flight

The battery, an AN3150, Type G-1, was a 24 volt, 34 ampere-hour shielded storage battery, A 1,000VA, 400-cycle, 3-phase inverter is installed on the right side of the cargo compartment floor just aft of Station 179

These limited electrical systems were installed on the C-82: Function

115V, 400-cycle	operating the radio navigation equipmen
115V, 400-cycle	operating the automatic pilot
26V, 400-cycle	operating the fuel flow meter
3V, 400-cycle	operating the magnetic compass light

C-82s were equipped with a second inverte that was a 750VA type. Communications & Electronic Equipment The C-82s were equipped with a variety of con

munication and electronic equipment for intercommunication, communication, navigati and identification.

These radio systems were installed on the Army Navy Specification AN/A/C-2 ANIMIC-9 Glide Path Receiver ANIARN-S ANIARC-3 VMF Command Radio Beacon Receiver AN/APN-9 ANVAGNUSA

AN/APN-2 (44-22959/45-57737) AN/APN-12 (45-57738/45-57832) Glide Path Receiver Automatic Radio Compass AN ARN-7 Manual Radio Compass ANVARN-11 ANIARC-8 Marker Beacon

A pair of wick-type static dischargers are mounted on the upper trailing edge portions of each rudder and trailing edge outboard end of each alleron. A single discharger is installed on the trailing edge of each wingtip.

AN/APS-10 (45-57783/45-57832)

Oxygen System

The C-82s are equipped with a conventional low-pressure demand oxygen system for each of the five crew members. In addition, a separate continuous-flow oxygen system was provided for troops in the main cabin. The latter system supported up to 43 troops. Four Type 3-1 cylinders, located beneath the cargo floor,

provided oxygen for this system. Three Type A-6 portable oxygen cylinders. with a 280in' capacity, were also provided. For this system, five recharger hose outlets for fillthroughout the airplane. These recharger outlets were part of the demand-type system.

The demand-type system was supported by eight shatterproof Type G-1 steel oxygen cylinders mounted in the aft cargo compartment ceiling.

Heating, Ventilating & Anti-Icing Systems Hot air is provided by four exhaust gas heat

exchangers and a secondary heat exchanger. This air is used for heating and anti-icing. Hot air directed along a D-duct in the wing,

ing edges affords icing protection. The secondary heat exchanger and air mixer, located in the wing center section, modulates air temperature to provide comfortable

air to the cockoit and main cabin. Hot air is also available for windshield and astrodome antiicing. The two outer forward windshields are of shatter-proof double pane construction that allows hot air to deice these windshields. EC-824

During the late 1940s the USAF was investigat-

ing a number of operational options: one of which was flying off unprepared fields. As part of this program, a single C-82A, sin 45-57746. was converted into an EC-82A, equipped with the Firestone-designed tracked landing gear. During this period, the 'E' prefix stood for Exempt, not Electronic. The standard wheels, tires and brakes were replaced by tank-like treads rolled around a set of sprocket wheels and bogies. With the tracked gear, the airplane could operate from both prepared and rough fields. Fairchild design engineer Alfred A Gassner was taced with the initial design. His challenge was to reduce the gear footprint to 25-28psi. In April 1949, a contract was let to

12 aircraft were ever modified. Airplanes. scheduled for incorporation of the tracked gear were s/n 45-57747/45-57764. Unfortunately it was a bad idea that went south. The tracks easily became jammed with grass and debris. In crosswind landings, the rubber track belts would depart their bogies. Both Fairchild and USAF test pilots were experiencing similar difficulties with the tracked gear, and the program was canceled in December 1949

The C-82 was also employed for ski tests. Aircraft s/n 44-23004 was equipped with snow skis developed by the Federal Aircraft Works in Minneapolis. MN under contract from the Wright Air Development Center. While retaining its standard landing gear and wheels, a set of wide skis was attached to each wheel around axle height. While development of the skis began in 1945, it was not until April 1948 that tests were conducted at Ladd AFB, AK. The aircraft experienced high nose gear shimmy and the main gear ski actuators lacked sufficient nower to raise and transfer the load from the wheels to the skis. The aircraft was returned to Wright AFB for redesign and modification. It was able to resume testing later in 1948 and in early 1949. These tests were conducted at Yellowknite, Northwest Territories, Canada, Nose ski unstick problems continued and on one test the aircraft traversed two miles without getting airborne. On the third attempt, the aircraft was able to get airborne. Though additional work was done to correct the nose ski unstick problem in time for the 1950-1951 tests, the program was abandoned because the take-off

C-82A, s/n 44-23004, was assigned to Wright-Patterson AFB, for flight testing. Note the fire bottle and ground power cart. Via P M Bowers



C-82 Operations

The C-82 Packets rearned far and wide in the pursuits of their business, however their growing paris were most evident during their initial operations. They served within the Zone of Infarior (Z), MX, and its Europe with the USAF, in the services of other air forces, and in civilan roles. In addition to its primary mission as a troop/ paratroop/cargo transport, the C-82 served admirably in the humanitatian role.

Project Comet

After World War Two, the United States Army Air Forces served as a subordinate organization within the United States Army, Strategic Air Command (SAC) and Tactical Air Command (TAC) were established on 21 March 1946 utilitating assets and personnel from Continent from Continent (TAC) were established on 21 March 1946 utilAir Command (CONAC). Continuing in existence was Air Transport Command (ATC), which had been established in 1942. While ATC was tasked with routine logistical support of both land and air forces within the Army, TAC

New post-war acrost requirements were activated by discharge remainst of the Azenario Chemocracy that had been established during World Wair Wo. Many World Wair Two. Many World Wair Two veterans formed the Air Force Association (AFA) whose remission was to educate America's oxideria and Congress on the need to categoria and congress on the need for a separate air force. Toward this end there was a series of deliber across the congress of the province of the congress of the congress of the congress used the province Deciral Science State (Congress).

fledgling Convair B-36 Peacemaker squarely in the public eye, and demonstrated new fighters and transports. One of these missions was Prolect Cornet.

On 2 May 1946, Major General Elwood Petel Outseads, TAC Commander, creed at mass trans-America flight utilizing the new Lockheed P-80 Shooting Star, America's first operational jet flighter Logistical support would come from the new Fairchild C-82. Project Corne called for a formation of 25 P-80s from the 412th Fighter Croup (FG) to 9 from March Faile, CAc on a nins-city, thirteen-day excursion to Washing on, DC. The mission was threefold.

 To demonstrate to America the need for a strong air force and show them what was being developed for the defense of the nation.
 To assess problems encountered in maintenance and supply during long-range deployments that may be required for a warrine deployment.

- To assist in Army Air Forces recruiting

Strewd planning on the part of the 412th FG called for a spare flight of four P-Ride.

Logistical support was provided by six C-82s from the 38th TCS, 316th TCG, stationed at Pope Field, NC. Cher Packet could not extend its gear and circled Hamilton Field, near Sat Francisco, for over an hour. The checksis gave no refield. Radio consultation with Farched Tech Repos also proved finitizes and the alcred.

A C-82A from the 20th TCS, 314th TCG, was photographed at Orrhard Flace ATB, it, from OHare International Airport), on 4 July 1969. The squarfor insignal consists of a light blue disc, within a red border, piped white, a yellow caricatured solve carryling a calinatered bug, it has attive of a paratrooper, wearing yellow shoe and gloves and a black hetmard, and carryling in the left hand a brown parasol and in the right hand, a Termey gun. B Kerro you Migt D W Mercol.

C-82A, kin 45-57820, from the Bth TCS, 62nd TCG. The aircraft has Insignal Red Arctic trim applied to the empenoage and outboard wing panels. Bite, the squadern color is applied to the nose. The squadern insignia also appears at the nose. The latter is a blue diec, edged black, a caricatured winged work horse yetlow, cutiliado black, branded on lay with a red cross, galloging at full speed, and wearing a revolver hotster distanced to cartridge bett tan about the

the noise. Its alsets of a statistics, edges on a carlcalored winged work horse system, outlined black, bransied on higs with a rest costs, assisping at fall speed, and wearing a revolve's hotistir fastered to carefridge but the about the neck, and a packing box green transped to his back, all over a silhoustite figure, black descending by parachelus to the left toward a large white cloud formation at the bottom.

3 Williams





Right: This ramp is filled with 23 C-82s from the 350h TCO, as denoted by their nose chevrons. The squadron colors are applied to the nose cheveros and some of the vertical tails. Note the variations in arctic markings. Via N E Taylor

listen og C - C2A-FA, in 44-2027. Is parked at an inharbo, when some of the crew members have a lin't say wisee of the activities. Red have a lin't say wise of the activities. Red control of the contro

at Great Falls. W.J Balogh via MSgt D.W. Menard Bottom: C-82A, sin 44-23004, was photographed Billing off from Wright-Patterson AFB with Wacc CG-15A-WO, sin 45-8276, in tow. Va MSgt D.W. Monard

made an ignominious belly landing. Plans called for two C-82s to precede the formation of P-80s and for three Packets to follow.

The first stop was at Tucson, AZ. Capt Ed Burnet, flying a P-80 named Shifty III, touched down and its two drop tanks departed the aircraft then bounced down the runway. Fortunately a spare set of tanks was carried abord to the C-82s and repairs were effected in steeders.

Fert Worth Army Air Field was the next stop. On departure another C-82 experienced gear poblems and had to return to Tucson. Its load was divided between two C-47s that were hurriedy dispatched from Long Beach, CA. Then, the C-82 departed with its gear planed down for the siborious trip back to Hagerstown for an

While the leg to Memphis, TN went without a technical hitch, the arrival at Washington National Airport with the advanced maintenance echelon again was subjected to a C-82 landing geer maifunction.

was given inductions.

All which is legitar plated discussed their apportunity and was a legitar plated discussed their apportunity parkers. You'ver expended by their Herman or Aerhardid less plated by their Herman or Aerhardid less plated by their Herman or Aerhardid less plated by the crowd. Membrans of the same parkers of their services of their ser

for the balance of the trip. In addition, the

fighter pilots wrested back their just laurels in

a dazzing performance. That evening,







Fairchild hosted a cocktail party for the members of Project Cornet at the Statler Hotel.

The 98th TCS dispatched a replacement pair of C-82s from Pope Field and the remaining syable Packets were returned to Hagerstown for engineering evaluation of the landing gear. During the departure from Washington on the leg to Tinker Field, OK, a C-82 aborted the take-off due to a fouled spark julg. It caught up with the team on the following day. Another C-82 failed to have the nose oper retract on take-off from Tinker and

had to make an air turnback for repairs.

sion. The P-80s performed quite well: however the same could not be said for the C-82. Through exercises such as this, an airmindedness was developed within the United States and on 26 July 1947, the National Socurity Act of 1947 was passed by Congress, paving the way for a separate air force that was co-equal with the Army and Navy. The United States Air Force was activated on 17 Septentisis 1949.









From lop: These two 62nd TCG C-82As, s/n 45-57801 and 45-57775, are parked on the muddy wash rack a McChord AFB, 62nd MAW Historian

This view of C-82A, s/n 45-57775, shows the aircraft being hosed down, the precariously perched scrubber, and another airman check the pump for sorraing the water/detergent

mixture, 62nd MAW Historian

C-82A, xin 45-57751, assigned to the 62nd TCG, 7th TCB, participated in a winter exercise. Troop drawn sleds were used to move the cargo. Note the herringbone tires that improved operations on the snow-covered airfield. Note how the Insignia Red Arctic markings were applied to retain the CC-755 buzz nember. Vin G 3 Williams

C-82A, s/n 45-57735, from the 50th TCS, 314th TCG, was deployed to Goose Bay AB, Labrador. Replete with the Insignia Red Arctic tries, the aircraft sports its red nose denoting the squadron. E Van Houton via MSgt D W Menard

C-82 TROOP CARRIER OPERATIONS

The C-82As operated with seven troop carrie groups and one fighter wing between 1947 and 1953. These units were all part of TAC. (It should be noted that the USAF underwent a change in operating unit designations from groups to wings in the early 1950s.) The 57th Fights Wing, based at Elmendorf AFB, AK, operated the aircraft for intra-theater airlift with four differ ent troop carrier squadrons that were assigned/attached at various times. Regula theater airlift operations in Europe were flown by the 60th TCG (M) between 1951 and 1953. S other troop carrier groups/wings were assigned within the Continental United States or Zone of Interior (ZI) and flew airlift, airdrop/airlanding and humanitarian missions with the aircraft

Unit	Base
62nd TCG (M)	McChord AFB, WA
64th TCG (M)	Greenville AFB, SC
313th TCG (M)	Bergstrom AFB, TX
314th TCG (M)	Smyrna AFB, TN
316th TCG (M	Greenville AFB, SC
375th TCG (M)	Greenville AFB, SC

The 314th TCG developed assault airlift oper tional procedures in addition to performing to tine training with Army airborne forces.

The 316th TCG had the unique assignme of developing glider operations utilizing it Waco CG-15. In addition, the unit was take with freight ferrying within the ZI and overses

During the Berlin Airlift, codenaned Ope ion Willies, the built of the airlift was provided the C-47 and C-54 aircraft belonging to Mit. This relief operation was conducted between June 1949 and 30 September 1949. Towar the end of the airlift operation, parts for an powerplann in the British Sector had to be lie in. For these massive parts, three different craft types were employed — a Beeing Of Strationisylater (from SAC), a Douglas Of Globermaster I, and Egispflysi Ce Persiet Alaskan Operations

Calls from the 60rd TOG, Twelfort Air Force, at ACCHOR 45R, Wile, were routingly deployed to Assas for joint operations with the US Amray has a for joint operations with the US Amray and you such places as Galance, Norme, and Sup leak AFR in air Amrayortability exercises, at Calls would work with units of the US Amray, Such Amray, Mobile control towers would be airthed for the operations. Ground as airthed for the operations. Ground see would feel yet his facility for the capabilities are not seen to the capabilities and the capabilities are not seen to the capabilities are not seen as a force of t

Individual troop carrier squadrons would be deployed to Alaska to provide routine airlift and resupply for the Alaskan Air Command.

Operation Yukon
During Operation Yukon, the 62nd TCG pro-

vided two squadrons and all available aircraft to transport one company of infantry and their field equipment from McChord AFB to Big Deta, Alaska in January 1948. The troops were part of the 2nd Infantry Division.

A trop invegation fleg was included as part of the mission along the following route: NCChord-Seate: Elematory: Spokines - Cocard Affects - Charge Inter-action - Cosat Falter - Cust Bark - Lethindepout - Gastler - Falter - Cust Bark - Lethindepout - Gastler - Falter - Edmontion - White-falter - Gastler - Falter - Fort St. John - Beatton Revirtations: Assistant - Seaton - Revirtation - Revirtations: Assistant - Revirtations: Ass

Northbound troops enplaned at McChord and deplaned at Elmendorf AFB; whereas southbound troops enplaned at Elmendorf and

Operation Assembly

During a six-week period beginning in April 1948, the 62nd TCG deployed to Pope AFB, SC, where it participated in Operation Assembly. While on this deployment, the unit trained with the Army's 82nd Airborne Division sta-

C-02A, 45-57770, also operated with the 50h TCS, 314th TCG on deployment to Goose Bay. A snow remover was operating behind the

Sporting a slight variation in nose trim, this C-82A, sin 45-57824, was flown by the 316th TCG. In addition, the squadron color appears on the top of the vertical tail. E Van Houton via

The 182nd Packet built was C-82A-FA, s/n 45-57792, seen here with its checkerboard nose. PM Boxers A-3815

C42A-FA, bin 45-57743, seen in summertime as denoted by the khaki uniforms. The forward entry doer, asteoderse, occupit windows, and tlamshell doors are open for cooling. Insignia Red Artic trin is applied, with buzz number 02-43 on the lower left wing panel. G S Williams











tioned at nearby For Bragg, Not only did the unit's personnel gain valuable experience in logistical planning during the preparation of a logistical planning during the preparation of a Niveg Loading and Movement Plan in preparing for the move to Pope, they had their first opportunity to participate in acuta factical situations. While deployed, the 62nd engaged in both tactal fying and thiving under field conditions call fying and thiving under field conditions involving. Operations - Formation Flying, Plansical Flying, Missions; Support - Field Administration, Missinenance, Subsistence, Movement, Sanitation, Medicine.

Movement, Sanitation, Medicine.
During this deployment the unit dropped 6,655 paratroops and 425,346 lb of cargo. The results of Operation Assembly garnered the 2nd TCG a letter of commendation from the Chief of Staff of the USAF, Gen Hoyt S Van-

Pirate Packet

Chance Vought aircraft had developed a new single-engined higher for the US Navy, known as the XFBU-1 Pirate. The new jet-propelled air-craft was designed to replace the jetischo-powered Chance Vought FeIU Corsair. The Vought aircraft plant was at Stratford, if The nurways aircraft plant was at Stratford, if The nurways cered Pirate would not have been able to take off from there. A solution was at hand with the

Fighter Rotation Support

The 82nd Fighter Group (BAC), equipped with North American P-SIH Mustangs, had been deployed to Ladd AFB, AK for cold weather training since 14 April 1948. The 82nd TCG dispatched 28 C-82s on 1 July to Ladd AFB for the 82nd's redeployment to Grenier AFB, NH. The complete movement of 505 personnel and 217,068 to of equipment was accomplished

between 2 and 6 July. The 62nd was given only 48 hours notice for the mission. The successful planning and execution of the mission in such a short period were a testament to the high state of operational readiness of the 62nd TCG.

Pass the Ammunition

When an urgent requirement for ammunition arose at Rapid Oby AFB, SD, the 62nd was tasked to provide the arithf. Afb co. 11 C-52 was employed in transporting 243,601 to 0.50 caliber ammunition in a 36-hour period between 16 and 17 July 1948. This was most likely in support of the 28th Bombardment Group's B-29 deployment to RAF Scampton between 54 and Offscher 1949.

A similar mission was flown on 16 July when 31 C-82s from the 62nd TCG were dispatched to Wendowe AFB, UT; Smoky Hill AFB, KS; and Rapid City AFB, S0 to a slift both spare R-3350 engines and ammunistion to the 92nd Bornbardment Group at Spokane AFB, WA. The 92nd bard exercity returned from a deployment to Yokota AB, Japan. Visibility was good and the mission was flown in formation.

Operation Haylift

In January 1949, a severe blizzard struck the Northwest and reached as far east as Nebraska. Cattle were dving from the severe cold and a lack of food. Ranchers were contry. Particularly hard hit were places in eastern and central Nevada. It was estimated that 45,000 cattle and 165,000 sheep were in immediate danger. Highway crews tried their best to gain access to the areas, but their efforts were fulle. They would no sooner clear a portion of highway when the winds would heap drifts of snow back over their work. The secretary of the United Stockmen's Association of Nevada, George Swallow, prevailed upon then Governor Vail Pittman, who in turn called Nevada Senator Pat McCarran. The senator conferred with Air Force general officers. As a result, Mai Gen John F Unston, Fourth Air Force Commander, ordered the 62nd TCG at McChord AFB. WA. into action. Previously, this same unit had flown medical supplies and food to the scene of the Texas City explosion disaster and done the same and provided air evacuation to flood victims at Vanport. Oregon.

This 316th TCG ship, s/n 45-575, has yellow trim A T-6 Texan is taxying up behind the Packet. W T Larkins via MSgt D W Menard

. On 23 January 1949, 17 C-82s departed McChord for McCleilan AFB, near Sacramento, CA. The US Navy had given permission for the unit to use the remote field at NAS Fallon in western Nevada. State highway crews worked around the clock clearing the runways in preparation for the archived of the Parkets.

The first plane to arrive from McClellan we ploided by Capt Doyal Saye, islano officer for the operation. His co-pilot was FLI Pleter Bay. an RAF exchange pilot. Barry had flower on similar mission in England when the norther part of that country was snowbound the pre-cous year. Berry was amazed at the distance involved in Operation Height! He stated, We leg of this flight would have put us way out its sea in Endostor.

The cattlernen were not pleased with the lad that the Air Force was tasked to help them. Al they could see were the snow-covered roads and wanted them cleared for normal traffic. They believed that any airdrop would be too!! tie too late. Apparently they lacked any concept of airpower.

All 0130 hours on 24 January, the first load by aymed at Falon Field By 0930 the first 16 C-82s that had overrighted at McColled arrived. The ships came in at 10-minute ires vals. At Ely, 210 air miles away and 1 houz? murtes later, the second aircraft landed with the runway was being plowed. Control on its organized to the second aircraft landed with the runway was being plowed. Control on its organized to ship with a size of the second aircraft landed with the runway was being plowed. Control on the size of the second aircraft landed with the size of the size of the second aircraft landed with the size of the

The ranchers complained that their cau would be lost. National Guard personnel we to redistribute the hay to the ranches. Instat. Col Adriel 10c. Williams ordered three of in nie aircraft to take the farmers abourd to der them for an aircraft, Affective them for an aircraft, Affective the factor, Affer these drops that telemen and the press were quick to give the colouted. The air age has core to rancing...only possible way to save the alocule.

There were contierns it than ord. "Affective the colouted that the colour than the colour th

zero at right. The gas trucks at NAS Fe broke down. Martenance facilities were is ing. The US Navy dispatched a pair of his properties of the properties of

The Packet Press Room really had a Nose for News, its name, all in capital letters, was written in two lines. This aircraft was C-82A-FA, s/n 48-573. It housed a mobile newsroom replete with most all of the needs for the newsmen in the field. This aircraft was manufactured as Line Number 208 and carried its CQ-573 buzz

A second aircraft, C-82A-FA, s.in 48-578 also hore the name Packet Pressroom. Its Nose for News was written in a single line with initial capital letters. Note that no buzz number was applied to the aircraft. She appeared at numerous airshows. Inside were deaks with typewriters and chairs for use by visiting media personnel. The aircraft was also used for the 1948 presidential campaign.

mountains between Fallon and Ely ranged from 8.000-12,000ft in elevation, with nothing but desolate, rocky, frozen desert wasteland Weights of the hay bales varied from 60-150 lb

each Initially the crews used hathroom scales to weigh them prior to loading. When this slowed down the process, they opted to guess. the weight and hope to achieve a reasonable center of pravity loading of each aircraft. Even with additional storms, the 62nd TCG managed to deliver 1,000,000 lb of hav.

An additional ten C-82s were provided by the 375th TCG at Greenville, SC. Their job was to shuttle between McClellan, Minden and Fly because of a lack of facilities at Fallon. Hav was also flown to Caliente in southeastern Nevada

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sal tackrucks NAS more e-offs allon oft at 10% oft of gross was oth at n The for stockpiling and redistribution. Things still looked bleak by 29 January, and a two-man legislative committee prevailed upon the Governor for more assistance. They believed that the havrift would have to continue for four to six weeks. The Governor in turn petitioned President Harry S Truman. The President said that the storm disaster 'makes it imperative that the full resources of the Federal Government he mobilized to furnish such emergency assistance as can be made

given Operation Haylift a blank check By 17 February the storms had ceased and the C-82s had compiled quite a record. They



over 270,000 miles, dropping an estimated

4.244,000 lb of hay, saving 300,000 head of cattle. Governor Vail Pittman was so impressed with the performance of the airlifters, that each participant received an executive certificate. stamped with the State of Nevada Seal and signed by the governor. The certificates read:

In recognition of the courage, skill, and devotion to duty displayed in assisting citizens of the State of Nevada in combeting the blizzards and intense cold of the winter of 1948-1949, and in acknowledgment of the vital service rendered to the livestock industry of Nevada in the preservation of great numbers of cattle through

I. Vail Pittman, Governor of Nevada, on behalf of the grateful citizens of this State, do declare through Federal agencies.' In essence, he had (Name of Recipient) of the United States Air Force do bespeak for him the appreciation of the men of good will everywhere.

During a domestic operation, nine C-82 Pack ets from the 314th TCG airlifted the 1850s Mobile Communications Squadron from Tinke AFB. OK to Eglin AFB, FL so that the commu nications unit could participate in war gamer They transported 990,000 lb of equipment i one lift. This was the first time 8.500 lb radiotele type units had been carried on twin-engine aircraft. The 1850th's jeeps were also carrie on the airlift. The loading was completed within three hours, and the aircraft arrived at Eolin wit the 1850th's equipment four hours later.

Operation Vittles - The Berlin Airlift

Airlifting large pieces of equipment during th Berlin Airlift was a difficult task until five C-82 from the 60th TCG at Wiesbaden AB, West Ger many, joined the operation. The C-82s carried leeps, earth graders, aircraft engines, rock crush ers, fuel-servicing units, heavy generators, steam rollers, ambulances, snowplows, steam shovels cement mixers, communications equipment, air craft control surfaces, and a variety of other



nieces of equipment. In one instance, a Ground Controlled Approach (GCA) radar unit was broken down into two pieces and carried on a pair of C-82s, then reassembled and placed into operation at Tempelhof Airport in Berlin

Most of the automobiles airlifted out of Berlin were flown on board the C-82s. These cars were purchased by aircrews in Berlin and flown out on the Packets that had their clamshell doors removed. In one instance, a C-82 lost an engine and the crew had to lettison the car. resulting in a personal loss for the airman.

The 60th Troop Carrier Group in Europe The 60th TCG based at Rhein-Main. West Germany, provided much of the intra-theater airlift. using C-82s. Three squadrons comprised the 60th TCG - the 10th 11th and 12th TCSs While the 10th and 12th were equipped with 14 C-82s each, the 11th had 13. The Military Air Transport Service provided the pipeline from the ZI to Europe, while the 60th moved the cargo and nersonnel throughout Furone. During a typical month, the 60th's airplanes would range from Tripoli in North Africa, in support of fighter units deployed there for training, to Oslo, Norway, for demonstrations of American power. The group would support British paratroop training exercises at Abingdon and Aldershot. England or the French at Lourdes, or Strasbourg in France. or Phillipville in North Africa. In addition, they 60th TCG commander was Lt Col Jay D Boque.

During one exercise with the French 41st Airborne Half-Brigade and members of the French Foreign Legion, five C-82s from the 60th TCG airlifted them from Phillipville, Algeria to practice establishing an aerial beachhead and providing perimeter defense. Maj Dixon Arnold commanded the detachment of C-82s, while French General Jean Noiret led the French contingent. During the four-day exercise, the C-82s made 1.800 paratroop drops and poured out tops of equipment from the aircraft without their clamshell doors. Language was the only major barrier to the operation that went off without one casualty

During Operation (Imbrella, there was a lack of bombers to act as aggressors for a test of the fighter defenses. To support this operation, the 60th TCG's C-82s acted as incoming bombers.

Two C-82s from the 60th TCS were tasked with the grueling assignment of flying scheduled round-trip resupply missions across the Atlantic as part of Project Redhead. The 2nd Bombardment Wing, based at Hunter AFB, GA, deployed its operational component, the 2nd Rombardment Group, to RAF Lakenheath and RAF Upper Heyford for a 90-day period in the summer of 1952. Project Redhead was to test the viability of SAC bombers operating from a forward operating location using flyaway kits for spares. There were concerns over replenishing critical parts in order to continue high dispatch reliability. The intrepid C-82 crews flew the priority spares from the Warner Robins

Air Materiel Depot at Robins AFB. Georgia. As a result of this logistical support, the Aircraft Out of Commission-Parts (AOCP) rate dropped from 11.28% to 0.65% for the B-50Ds and from 32.5% to 1.73% for the KB-29s - a marked improvement by any standards.

Approximately one-third of the missions of the 60th TCG were flown in support of fighter trainevacuation missions, and another 25 devoted to French training. They searched for a B-29 down in the Meriterranean, and a C-124 lost over the North Atlantic, A particularly tense operation was the search for a US Navy PB4Y-2 Privateer shot down by the Russians over the Baltic Sea, Flying the Berlin Corridor was no piece of cake because Soviet fighters routinely made harassing runs at the unarmed transports. The exigencies of the Korean War had an impact on the operations of the 60th TCS. Spare parts shortages resulted in back orders of as much as two months. Because of other global commitments of the USAF, the 60th's Packets were two years overdue for a major overhaul, but the maintenance nersonnel kent them fiving

375th Troop Carrier Wing Activation The 375th TCW, a Reserve unit, operated C-46 Commandos from the Greater Pittshurch Airport PA. The unit was ordered to active service on 15 October 1950, and relocated to Greenville AFB, SC, arriving a day later, The 375th immediately transitioned onto the C-82. which they operated in support of the US Army Infantry School airborne missions at Fort Benning. Georgia. Assigned to the wing was the 375th TCG with its components - 55th, 56th, and 57th TCSs. The wing was inactivated on 14 July 1952, returned to Reserve status, and relocated to Pittsburgh where it reverted to Curtiss C-46s

64th Troop Carrier Group The 64th TCG, stationed at Donaldson AFB. SC. achieved a major milestone on 20 August 1952, when they made the largest all C-82 airfor a demonstration that was witnessed by cadets from West Point and military attaches from 39 countries. During this mission, 2,160 paratroops were dropped along with heavy equipment including trucks, leeps, and howment landed within the drop zone. The only casualties were six paratroops who reported slight sprains The 64th TCG flew two emergency relief mis-

sions during October 1952, First, a C-82 was dispatched to Eglin AFB, Florida where it was loaded with a Sikorsky H-5 Dragonfly heliconter and 10 personnel from Eqlin for onward movement to Tegucigalpa, Honduras, Later that month one of the group's aircraft went to Wilmington, NC to make an emergency airlift of fire-fighting equipment to Charleston, WV When a Reserve C-119 unit, the 443rd TCW.

was inactivated at Donaldson AFB, SC on 8

Innuary 1952, the 64th TCG was tasked w moving 270,00 lb of organizational equipme to Altus AFR, OK for use by the newly activate 63rd TCW. Regular Air Force unit assigned the Eighteenth Air Force (TAC), at that bar The cargo siglift continued into February

On 25 January 1953, 10 C-82s from the 6i TCG were assigned to airlift equipment belor ing to the 366th Fighter Bomber Wing fro Alexandria AFB, LA to Griffiss AFB, NY, Operation Coldspot. Aircraft from the 64th TO and the 465th TCW, a C-119 unit stationed Mitchel AFB. NY provided courier servi

throughout the exercise During one mission for Operation Colden a C-82 from the 64th TCG was airlifting a dur truck to Griffiss AFB. The truck was load in such a manner that the crew could r have gotten to the troop doors in the clamsh doors for ballout in the event of an emergent In addition, the clamshell doors could r be removed in flight thereby precluding option for lettisoning the truck. While enrou to Griffiss, the No.2 engine failed and the a craft began losing altitude. Fortunately for aboard, the pilots were able to make a su cessful emergency landing.

C-82 DRAWDOWN

As the Douglas C-54 Skymasters and C-1; within the ZI, the Fairchild C-82 Packets we phased out of the troop carrier business duri late 1949. Sixteen of the 62nd TCG's C-8 were transferred to the 60th TCG at Rhein-Ma AR West Germany during October 1949, Offi C-82s went to the 2601st Assault Squadto Fourteenth Air Force, Smyrna AFB, GA. Ti remaining C-82s were reassigned to MATS.

C-82s in Troop Carrier Command were wit drawn from the following units as they t equipped with newer aircraft, as shown:

Date	Unit	Base	Now At
Oct 1948	313th TCG	Bergstrom AFB, TX	C-54
Oct 1949	62nd TOG	McChord AFB, WA	C-54
Aug 1950	314th TCG	Smyrna AFB, GA	C-119
Vov 1950	316th TCG	Smyrna AFB, GA	C-119
Jul 1952	375th TCG	Greenville AFB, SC	C-119
1953	60th TCG	Rhein-Main AB,	
		West Germany	C-119
Jul 1963	64th TCG	Donaldson AFB, SC	C-119

EPILOGUE

Though the Fairchild C-82 Packet was a ungainly and awkward ugly duckling, it sees the Post-World War Two active duty forces in Not only did it afford crews an opportunit expand on a mission performed during Wat War Two, but to perfect global all-weather or ations. In addition, the airplane performed a

The civilian exploits of the C-82 are coun



gram is akin to birthing an elephant when all of production, and politics are taken into account. The USAE/Fairchild C-82 Packet and C-119 ples of the interweavings of these elements and how they can get downright nasty when the

PROCUREMENT & PRODUCTION

There were two major manufacturers involved in producing the C-119, Fairchild Aircraft that had produced the C-82 Packet, and Kaiser, an automobile manufacturer that became an upstart in a volatile aircraft program.

Fairchild Aircraft

Fairchild Aircraft had been in business since the 1930s producing a variety of civilian aircraft, some of which were adapted for military use but proqued in relatively small numbers. When World War Two came about, the US Government preferred to deal with its established aircraft manufacturers such as Boeing. Lockheed, North American and Piner, Consequently. Fairchild was relegated to building single- and twin-engined trainers at a prodigious rate as their contribution to the war effort. in the table below.

Requirements At the direction of Headquarters AAF, Air Materiel Command (AMC) at Wright-Patterson AFB. OH presented the AAF requirements for a new tactical transport to the AMC Engineering

fuselage of this C-119 on their Hagerstown, MD ramp. For ventilation, the cockpit windows and astrodome are open. Air Force Association

Division to develop a detailed airplane specifi-

cation. It was up to the Engineering Division to initiate contracts with industry in the form of a request for proposal (RFP). Engineering was responsible for a manufacture of experimental items, for preparation of specifications to secure uniformity and acceptable quality where standardization was possible, and for testing of

Type	Qty	Notes
XAT-13	1	
XAT-14	1	
AT-21	106	Anoth
PT-19A	3.182	Anoth
PT-198	774	Anoth
PT-23	2	Anoth
DT 224	Δ.	sea.

PT-26A

PT.WR

nother 39 were built by Bellanca in New Castle, DE; and 30 by McDonnell in St Louis, MO nother 477 were built by Aeronca in Middletown, CH: and 44 by St Louis Aircraft in St Louis, MO.

nother 375 were built by Aeronca, 199 by Howard Aircraft in Chicago, IL: and 93 by Fleet in Canada 150 built by Howard, and another 105 by St Louis Aircraft.

250 built by Fleet.

prototype models produced by the manufacturers. In the case of the C-82 Packet, there was a sole source contract issued to the Fairchild

AMC's Production Division interfaced with both the Engineering Division and the aircraft manufacturers. As design changes were develoned by the Engineering Division, it was up to the Procurement Division to schedule and implement the changes into the manufacturer's production line. The folks in the Production Division were polaetters and looked for the most expeditious means of implementing the changes - it was a challenge to them. A situation that exists to this day began during World War Two when the Production Division accused the Engineering Division of being too slow and too concerned with minor refinements. Conversely, the Engineering Division not consult with them often enough, and many

It was the responsibility of the Procurement Division, made up largely of attorneys, to draft the language employed in each of the contracts. Many of them lacked the technical

expertise to comprehend the battles between

The requirement for a factical transport drove a decision to procure 100 C-8284 from Fairchild and open a new plant in Dallas, T Kto North American to build 792 C-8284s. Both companies commenced production in January 1945. When World War Two came to an end in Apparent 1945. When World War Two came to an end in Apparent 1945, when you have the production of the C-828 being built. By June that year, Faschild had been awarded a contract to build an additional 100 C-8284s. Initial testing of the C-82 appeared so

June that year, Fairchifd had been asweded a context to build an additional 100 C-828A. so context to build an additional 100 C-828A are consistent to the promising that the URAAP aswedded Fairchifd an installa context for 100 aircraft before testing had been completed. Tactical filtra soon The Press of the Context of t

required a redesigned cockpit; while the lor capability necessitated new engines. A wid fuseisage was needed to meet the cargo capa ity requested by the USAAF. All of the requirements resulted not in a modified C-82, but an entirely new airolane that would be de

ignated the C-119 Elving Boycar The C-82A was limited to 54,000 lb oro weight at take-off. To raise this limitation wh using the R-2800-85 powerplant would result an airplane taking off at its critical single engi ceiling. It was suggested that the engines i replaced with Pratt & Whitney R-4360 engin driving four-bladed Hamilton Standa reversible propellers: thereby permitting 64,000 lb maximum gross take-off weight. U of these engines necessitated a redesign of the wing center section, outer wing panels, forwar fuselage, engine mounts, and landing ge-Fairchild Aircraft indicated to the Air Force th these changes might also necessitate lend ening of the tailbooms and only wind tunn testing would prove this. The longer tailboor would be necessary for stability and conti reasons. Recause of the similarity between t C-119A and the C-82A, the decision was may that wind tunnel testing would not be pr formed by either the USAAF or Fairchild.

Coping with Deficiencies

Because the requirement for a new tackit transport was so urgent, there was no time adequately test a prototype or a series service evaluation aircraft prior to entering production. To correct the deficiencies encountered with the C-82, major changes we recommended for the airplane – so many it a new designation, C-119, was issued.

a new designation. C-IV was issued.
In tase Colore 1946, the Procurement Dison informed the Engineering Division is Parchibit between that the C-IV34 would unstable and that an extensive the terminal to the process of the process o

C-22A, ain 45-57769, was extensively modified become the sole XC-119A, bearing the same serial number. The name on the nose reads Fairchild G-119 Packel, hence some of the confusion in the name Packet being carried or to the Tryling Boxzar. An instrumentation boon was installed beneath the outboard portion of the right wing. Note the extremely long nose gear door. Aft Force Museum ALC-119A(b)cb.

This in-flight view of the XC-119A reveals the upper surface walkway markings. The 'USAF' is missing from the top of the right wing. The picture dates from 1948. Note the large fairing for the astrodome. An instrumentation boom installed beneath the outboard portion of bolt wings. The alcraft was eventually to become instructional airframe at Chanute AFB, OH. US SCEILIEC.





A crane director stood on top of the fuselage to guide the crane operator in moving the boom/ empenage assembly into place on the first C1996-FA, sin 48-319, Fairchild Peassus Massine

sion would offset the destabilizing effect of the movement of the center of gravity, and that the modified aircraft with the extended booms should approximate that of the C-82A. However, after the C-119 was committed to production, it was discovered that the stability of the C-119 of the C-82A of the C-

asked for a complete cost estimate for installing R-4360 engines on the C-82 in lieu of the 8,2800 engines. They also asked for a normplete redesion of the cocknit and landing gear. Fairchild's proposal for \$868,269 to accomplish the modifications was forwarded by AMC to Hearly varters AAF on 17 December These figures did not include the C-82 that was to be furnished by the AAF for the retrofit. Excluding the cost of the aircraft, but adding in the cost of government furnished equipment IGEF), the renoram was expected to be around \$1,300,000. On the following day. Mai Gen Laurence C Craicie, head of the AMC's Engineering Division, stated that the modified airgraft should include all changes necessary to mand. He went on to say that, while this effort would amount to a major redesion, it would be more expeditious and far cheaper in the long nin by several million dollars than entering into

A 2 October 1946 proposal submitted by Fairchild suggested installation of either R-4360-4 engines with single stage, variable speed superchargers or R-4360-35 engines with single stage, single speed superchargers. Because the R-4360-35 engines were not available. AMC recommended using the R-4360-4 engines. Numerous changes were recommended by the causing Fairchild to submit a new specification on 24 February 1947 with the price increasing from \$968,299 to \$1,214,814 per aircraft Changes added to the specification resulted in a further increase in the price to \$1,255,187, Subsequent negotiations resulted in a price reducton to \$1,230,473, nermitting Fairchild a 7% profit (submitted on 13 August 1947).

In August 1947, the AFF Aircraft and flagons Board decided that the curpo companies should be widered to accommodate it care while ground whether. Because the reliance to the companies and the second to accommodate it care while ground whether. Because the reliance to the companies of the second to the second



Early Problems

Shortly into the flight test program of the C-119A a number of stability and control problems and some structural deficiencies were discovered. Directional control was less on the new airplane than it had been on the C-R2A a condition that was evacerhated during engineout conditions. Critical asymmetric power conditions resulted, thereby causing the pilot to exert very high rudder pedal forces in order to the principal cause of pilot-error accidents with the C-82A was poor single-engine technique used by pilots accentuated by the inherent marginal directional stability characteristics of the aircraft. While Fairchild considered the C-119B to be an improvement over the C-82 in this respect, the Air Force never agreed Test pilots flying the C-119A discovered that.

Test picts tyring the C-119A cliscovered that, when making a tail-low take-off or landing, it was possible to strike the ventral fin on the runway. To preclude such tail strikes, Fairchild removed the ventral fins; thereby further exacerbating the engine-out directional control problem.

About six months prior to the first flight of the CH19A, it was noted that there would be a fivemonth gap between production of the last noted that the production of the last production gap would not be let until after the C-119A had been built and testfown. Such a 54 000,000 contract price increase because \$4 000,000 contract price increase \$4 000,000 contract price increas first 12 C-119Bs. This contract was let 22 days prior to the first flight of the C-119A. The C-119B was a further redesign that per-

mitted accommodation of a 96-inch wide ground vehicle in the cargo bay. Power was provided by a pair of Pratt & Whitney R-4360-20 engines, each capable of producing 3,250bhp at 2,700rpm on take-off.

Structural Inadequacies

Structural problems plagued the C-119s. Between January 1950 and July 1951, there were 22 C-119 sociolents that were attributed to material failure. This figure equated to 60% of all C-119 accidents during this period. The majority of these failures involved tail surfaces

Several near-accidents resulted from failure of the vertical fins while in flight. In one instance a C-119 was flying near the coast of France when the crew noticed some unusual noises The crew chief went aft to investigate. Through the intercom he advised the flightdeck of his findings and he bailed out of a troop door. The flightdeck crew followed his example. The horizontal stabilizer separated from a boom and the airplane crashed just off the shore. Boom failures were believed to be the result of rough field operations, hard landings, turbulence, and prop wash encountered in formation flying. As a result. BuAer requested a 50% increase in boom strength to satisfy the 140-knot critical design load maneuver criteria. While these changes were incorporated on all R4Q-1s, the USAF did not go along with these modifications initially. When Navy flight testing proved the validity of the changes, the USAF initiated a similar program. It should be noted that all of these changes had an impact on the aircraft



operating empty weight, thereby affecting its payload capability.

In addition to the poor single-engine control

characteristics, the C-119 was noted for poor single-engine performance At 71 800 lb, the C-119B would not climb at any altitude, nor could it turn without losing altitude. It had extremely poor go-around performance. At 60,000 lb, the performance was slightly more estisfactory. While somewhat better the C-119C also had unsatisfactory single-engine performance at higher gross weights. It was subsequently recommended that the C-119B he limited to a maximum allowable arross weight of 68 700 lb, and the C-119C be limited to 72 300 lb so that the airplane could meet the requirement for a 110th per minute climb on one engine. These conditions still exceeded the design weight of 64,000 lb

In addition to the poor control characteristics and performance, the C-119 had cottemely poor rudder and alleron effectiveness at low speed, including rows flague and chargerous speed, including rows flague and chargerous speed, including rows flague and characteristics. A recommand had established a maximum drop speed that was to foncts before the safe single-engine speed. (The speed was established to reduce pagiodal caster over the drop zone). This operating procedure placed the safe to yet as alse speed in order to jettled in the safe for yet as alse speed in order to jettled in the safe of yet as alse speed in order to jettled in the safe of yet as alse speed in order to jettled in the safe of the process of the safe of the

Propeller problems plagued the early C-119s. The initial production batch of C-119Bs was not accepted by the USAF until Hamilton Standard could eliminate the oil leakage problem. Approximately five morths after initial ediverses of the arplanes, a series of unusway props was experienced due to failures in the plack change are teath. In addition, stress cracks developed in the blades, Blades failure in fight resulted in unusway props or the entire prop departing the airplane. Because of these stress cracks, the blades were stripped of paint.

detected. Hamilton Standard eventually made the necessary design changes in order to eliminate these problems. Improper curing of the cellular plastic rubber core was cited for some of the prop failures.

Between 1 January 1950 and 1 July 1951. C119s were involved in 38 major and eight minor accidents, resulting in 13 alcraft being destroyed and celestroyed and 25 experiencing major damage with a loss of 36 lives. These material losses with a loss of 36 lives. These material losses were the cause of many of these losses Statistical data on the mishaps for both the C42 and C119 may be found in 14 for 15 minor 15 mi

Procurement and Production To fill the possible five-month gap between

production of the C-82A and the C-119B, Headquarters AAF accepted the second plan for 20 additional C-82As, without any cockpit modifi-

cations, for the FY 48 procurement program. Farshfuld submitted a proposal to Frieddayatess USAF (the USAF replaced the AAF on IT September 1897) on 16 October 1947 for \$22,986.75, which included 37 C-1990a, support equipment. The farst C-1198 was to be delivered in December 1948 at an exempt support equipment. The farst C-1198 was to be delivered in December 1948 at an exempt price of \$562.745. Because the C-1198 has to the same to long could be utilized, the unit price was significantly lowered. The contact save Faschild at 195 crofts.

On 28 March 1948, the Government issued notices terminating its two facilities contracts with Farchild, effective 31 August 1949, and replaced the three previous contracts with a new facilities contract on 1 September 1944. Mig Gen Over 19 Cook, AMIC'S Director of Procurement and Industrial Planning, approved the contract on 23 September 1949. The new contract covered buildings, machinery, equipment, and repaying the runways at a cost of

On 9 May 1950, C-119C-13-FA, s/n 49-126. carried a completely assembled spare out wing panel for a damaged C-119 from Haperstown, MD, to Camp Campbell, KY, The spare panel, weighing 1.450 lb, was loaded without the wingtip, fuel cells, or alleron. Dimensions for the part were approximately 331 in length. Bft at the tip and 13ft at the root. The root end protruded about 10ft 6in from the aft end of the cargo compartment. Three wooden cradles, cables and bolted plates were employed to lash down the bulky piece of cares The aircraft was piloted by Lt Col S E Cleveland the Air Force Plant Representative at Fairchild. Similar transport feats were later accomplished during the Korean War. Fairchild #8-82 via

\$7,264,000. Reserve equipment valued a \$186,934 was provided. These changes reviued the Government-owned facilities a \$3,294,298. The facility expansion an improvement program was done to permit a increase in C+19 production from 10 to 35 at craft per month.

On 18 August 1948, the Navo's Bureau is

Aeronautics (BuAer) submitted a Military Inter departmental Purchase Request for the procurement of eight C-119Rs, to be designated as R4Q-1s. Deliveries were scheduled for on aircraft per month, beginning in July 1949 BuAer had a requirement that all of the instru ment panels be changed to met their specifical To accommodate this request production of the R4Q-1s was to be completed with three aircraft in October 1949 and the remaining five the following month. All eight all craft with the new instrument panels were delivered as the 47th to the 54th production articles. These aircraft were built under a sup niemental agreement to the EV 48 program 4 a result of this RuAer order, the USAF was able to obtain its 99 previous aircraft with a con-During January 1949, AMC advised Fairchild

of its desire to replace the R-450-20 ergs; with R-450-20 ergs; with R-450-20 ergs; effective on the 38 airplane. When this change could not be inserted, when the change could not be inserted, and the change of the side production article and resulted in redesignate of the aircraft as the C-119C. On 5 January 1950, a change order was issued (at a cost \$214.282.01) for installation of R-4509.28 ergines on 81 C-119Cs and eight R4O-15. On 31 October 1951, May Gen Mark I.

Bradley, Deputy Director of AMC's Director of Procurement and Industrial Planning Disson, informed Headquarters USAF that as all whigh Amountable Corporation had result whigh Amountable Corporation had result with gift Amountable Corporation had result engines, were destined for follow-on-CH amountable of the Corporation of the Corpor

quently, the first 75 of the 131 C-119Fs were delivered as C-119Cs. The remainder of the 131 aroth were delivered as C-119Fs with Wright R-3850 bytocompound engines.

Nazio strocorpicorio la girja esia Commando Local May Hospicario USAF lo approvo procumento di anadditional 99 C-1 1988. This by or was approved on Ju. June. Supplemental Agreemen No I, Isawad on 19 April 1948, called for the convention of one of the original C-1 198 altanese into the XC-120 with a destarbable pool. On IA Applast 1946, the US Newy's Bureau of Aeronautica (Bu-Mer) submitted a told for eight - for the Cust'm model. (3 for Farenfold, and -1 for the Cust'm model, for use by the US

Design efforts to improve the airplane confinued. The YC-119D, a detachable-pod version of the C-119C, and YC-119E, a similar adaptation of the C-119H, were paper projects only.

New War Requirements

Co.21 May 1948, the Air Materiel Command seasand Heladquares USAF to approve processment of an additional 99 C-1 1988. This buy septomed on June. Supplemental Agreement No.1, issued on 19 April 1948, called for tencewarin of new offer original C-1 1988 arteres into the XC-120 with a detachable pool. In August 1948, the US Navy's Bureau of Aerosatios (Buller) submitted a told for eight C-1768, deep usual MAC-1 is (for for temport, 4 or the buylm model, 0 for Fearrists, and -1 for London, for original controls, for use by the US

A change in engines to the 3 500hp R-4360-20W, with water injection, resulted in the C-119C. Other changes included the deletion of the outboard horizontal stabilizer tip extensins and the addition of dorsal fins on top of the booms to enhance directional stability. These changes came with airplane serial number 49-119. A contract revision with BuAer resulted in the R4Q-1s being delivered in this confouration. The C-119C first flew in April 1950. The Korean War accelerated the need for hese aircraft and as a result, a second source was found - this being the Kaiser Manufacturins Company in Willow Run, MI. A total of 303 C119Cs was built, the last 41 of this series being made by Kaiser. In addition, Fairchild

bull a total of 31 R4Q-1s for the Marines.
With the outbreak of hostilities in Korea in 3yl 1980, Headquarters USAF decided that there was a new requirement for 1,800 C-119s for the US and their allies. On 20 July 1950, AUC persentatives met with Fairchild Aircraft

to discuss an immediate socieration in C-119 production. Initially, the USAF had planned to give the entire C-119 production run to Fairchild. A new order for 36 additional aircraft, at a total cost of \$16,869,809, was given to

railcrisis on's Discending this.

To meet the projected requirement for 1,800

To meet the projected requirement for 1,800

addisonal 6-119s. AMC personnel met with

Farbrichial Arrarti to discuss opening a second

production line in Onatha. This was in keeping

with Pertagon of houghts that key acroat production should be moved inland as insurant

pagainst an enemy stack on manufacturing

against an enemy stack; on manufacturing

facilities near the coasts, it was believed that

new facility in Omaha. On 12 October 1950. Brig Gen A H Johnson. from AMC's Industrial Planning Division, notified Headquarters USAF that the Fairchild plant at Haperstown, Maryland could be expanded Gen Johnson also advocated that Government Plant No.8 (at O'Hare International Airport Chicago) he expanded because Fairchild had been scheduled to partially occupy the facility on 1 December 1950. General Johnson went on to state that: "It is hereby certified that other suitable canacity for this production is not known to this Command, nor is it believed that same can be obtained elsewhere at low cost to the Government.' The facility at Willow Run. MI hart been discounted in his recommendation. not because of the expense, but because AMC had already scheduled the facility for the medium bomber program.

During October 1950 AMC submitted a letter to Headquarters Continental Air Command in which AMC referred to plans to reactivate the Chicago plant for C-119 production. If the plan to reactivate the plant could be stabilized by 1 November 1950, it was stated that Fairchild would like to occupy part of the facility immediately.

On 25 October 1950, Gen Cook recommended that Fairchild be issued a contract to open the Chicago facility on 1 December that year. On 1 December he reaffirmed his position, stating that, while Plant No 8 was considered to be unsatisfactory and would cost \$15,000,000 to reopen, about half of the costs could be charged to the MDAP program.

could be charged to the MDAP program.

Three days later General Cook discussed the matter with Lt Gen K B Wolfe, AMC Commander. General Wolfe disagreed with Cook because of the undesirable labor market in Chicago, and stated that he wanted to establish

additional production at Marietta, Georgia.

Later that day, Generals Cook, Bradley, and Johnson met with other AMC personnel to discuss the proposed FY 51 procurements. During this meeting, it was decided that 24 C-119s would be built by Fairchild at either Chicago or Birminnham, AL. Gen Cook announced that he

planned to discuss the C-119 program with Fairchild. On 8 December 1950, Headquarters USAF issued Procurement Directive 51-77 directing AMC to initiate procurement of 36 C-198 at Hagerstown and 113 C-119s at a yet to be retermined fracility.

On 11 December 1950, Headquarters USAF directed AMC to para new production limit for the C-118, stating that AMC was authorised to the C-118, stating that AMC was authorised to the C-118, stating that AMC was authorised to the C-118 direction of the C-

In November 1981, the order for C-119Gs with spares, tooling, and ground support equipment was increased to 193 aircraft; 50 of which were scheduled for Mutual Defense Assistance Pact (MDAP). On 18 February 1992, the order was revised to decrease the C-119Gs to 143, increase the MDAP aircraft to 62, and



C118C, sin 46-162, was delivered in this printine condition with its note surmber 162 applied. Nate the open cowl flaps and black anti-cereatin paint on the underside of the boom only, indicating that the aircraft was powered by the ties stacked R-4500 engines. Black anti-cereating paint on the underside of the boom only in the stacked R-4500 engines. Black anti-cereating paint was also applied to the full inight of the belly, starting at the nose grant deeps at Palacked with MMM IT M Manadel



and a 5-1194s for the RUAP. By June 1992, there were \$41 C-1196 in this contract, as signed by Maj Gen K E Webber. The total price for the aircraft was \$80,200,017 - each aircraft having a unit price of \$259,171. The contract allowed Fairchild an 8% profit for the first 188 aircraft and \$5% for the remaining 283.

Two test aircraft were ordered on 18 September 1950: a YC-119D and a YC-119E, that bon aldeharbs a distance and blunw These aircraft were production line modifications of the standard C-119C. The YC-119D was to be powered with Prattt & Whitney R-4360-20W engines, while the YC-119E was to have Wright B.3350.30Ws. On 26 June 1951. the YC-119D was canceled, and the YC-119E was placed on hold pending flight test data and evaluation of the YC-119H - a long-wing version of the basic Flying Boycar Then on 7 November 1952, Headquarters AMC recommended cancellation of the YC-119E and that the airplane be built as a C-119F. Brig Gen W.G. Baine, from the AMC Procurement Division, approved a supplemental fixed-price contract calling for two additional C-119Gs (at a cost of \$713.99) to replace the canceled YC-119D and YC-119E aircraft.

Fairchild had delivered 78 aircraft by 31 December 1952, which included eight for the RCAF and four for MDAP. The C-119Gs were delayed by five months due to difficulties encountered with the Aeroproducts propellers. Another contract was left for 22 August 1950.

Another contract was let (on 22 August 1992) for 87 C-11968, spares, tools, ground support equipment, and a mobile training unit. The total cost of this contract was \$30,516,000, with deliveries to be completed between March 1954 and February 1955. On 31 October 1952, the August contract was expanded with a new contract for 26 additional C-119s in FY 53.

Kalser - A Second Source

During the morning of 5 December 1950, the Kaiser-Frazer Corporation secured a loan for \$25,000,000 from the Reconstruction and Finance Corporation. Then Henry and Edgar Kaiser met for lunch with Under Secretary of the

Air Force John & McCone with whom the Kaisers conferred about cetting into the aircraft business. Under Secretary McCone called Gen Wolfe into his office where Wolfe suggested using Willow Run for the C-119 production Later that afternoon Col Lee W Fulton from AMC's Procurement and Production Division. was called to General Wolfe's office, where instruction was given for Col Fulton to accompany the Kaisers to Hagerstown on the following day. Gol Fulton was instructed to: '...negotiate with Fairchild management regarding turning over to Kaiser-Frazer Corporation information, plans, and other aids which would be necessary for the development of a proposal by Kaiser for the production of C-119 airplanes at the Willow Run plant.' There is no conclusive record to show that General Wolfe stated to Fairchild during the telephone conversation on the afternoon of 5 December 1950 that Kaiser would definitely be the second source for C-119s or that Kaiser wanted the data just to submit a proposal When Col Fulton and the Kaisers arrived at

When Lot Profits also it in relating a time or a proposal many was somewhat the chocked and reluctant to share the requisite data. A Fairchial cop president asked what effect a Raiser proposal would have on their proposal for using the Chicago plant, a proposal afready presented to AMC. When Cof Fution called deneral Wolfe for definication, Gen Widels stated and Wolfe for definication of which stated and with the Chicago proposal, that they were to be considered as the superater things.

On 15 December 1950, Under Secretary
McCone met with sy USAF and AMC personnel at Winjsh-Patterson APB. In response to a
question by Under Secretary McCore and a
question by Under Secretary McCore and
General, said that if speed was essential, it
would be better to obtain second sources by
splitting of from parent organizations. Otherwise, the generals believed that it would be
among other organizations. While Under Secerating McCore Bustoned giving the contract to
extra yMCCore Bustoned giving the contract to

Things did not always go well here. C-110: 1-12 at 40 at 10-12 at

another existing company, Air Force Chief a Staff Gen Hoyt Vandenbern believed the con tract should be awarded Fairchild for produc tion at Marietta. GA. Gen Wolfe's objection to awarding the contract to Kaiser was been upon his belief that the plant could be used to building larger aircraft. General Chidlaw states that while Fairchild might object to Kaiser being named a second source conversely Keise might object to Fairchild being established as second source at Marietta. He went on to sa that the Air Force should use companies whose non-defense production had been reduced in the end. Under Secretary McCone stated the he assumed it would be proper to make arrangements for putting the C-119 productor into Willow Run.

Justification for awarding the C-119 contrad to Kaiser instead of Fairchild fell into several categories:

- Since Kaiser had cut its civilian production by

50%, the C-119 contract was expected to keep Kaiser's skilled labor force intact and in use. - The trained management and working force at Chicago was not as large as that in the Detoit area.

 While the Chicago facility had a production potential for 150 aircraft per month, Willow Rut had a potential for 265 per month.
 The decision to use the Willow Run facility wast line with Gen George C Marshall's policy in broadening the base, which was officially announced on 18 December 1950.

 There was some fear of losing the Willow Run facility to another service (that is, Army tank production).
 Another source stated that the Reconstructor and Finance Corporation wanted to assure

collection on a portion of its loan to Kaiser, but this could have been a red herring.

On 19 December 1950, 113 C-119s for I USAF and 21 MDAP C-119Cs were order from Kaiser at a cost of \$122,882,184, 0 in same day, a contract letter for \$10,000,000 facilities refurbishment was issued to Kaiser

Tacinies returbishment was issued to Kaser. The Williow Run plant had been used by fduring World War Two to produce B-24s. #it the war, Kaiser first leased the facility ier \$88,500) and later on 1 December 1948, a chased it for \$15,000,000. A cayeat in the class allowed the Government to recipture the graph to the balloy indeed for healthcoal Security Classe. As was the case in all recipture Classe. Be company in Jack and the left of the desired training the company of the company of the desired training the ball of the left of the desired training the company of the training the company of the desired training training the desired training training the desired training training the desired training training training desired training training desired training desired training desired training desired training desired training desired desi

pages of the control of the control

When Mr Boutelle met with Henry Kaiser, he relused to hand over the required data, citing to dassfied nature. General Wolfe immediately had a release sent to Fairchild thereby giving Mr Boutelle no further reason to renoge.

On 20 December 1950, Kalter was given a conscrict to build 36 C-119CGs, with sparses, tools, and ground support equipment. On 36 Generally 1851, the color was increased to 130 Tast eas increased to 130 Tast eas increased to 57.110.000. On 94 August 1851, the contract was again changed to a teapine contract for 130 C-117F3 and 36 Sec. 110 Tast eas in 157 LEST on 157 LEST eas 158 the contract of 57 LEST eas 158 the contract in 157 LEST eas 158 the contract in 157 LEST eas 158 the contract in 158 LEST eas 158 the contract was \$4.267.170 to cover work to be performed by Fainfard under the Technical Assistance Agreement with Kasier for 1951. The section of 158 LEST eas 158 LEST

After securing a contract to build C-119s at Willow Run, Henry and Edgar Kalser called soon General Cook on 10 May 1951, to advise to the heart help had just purchased a 49% inferent in the Chase Africall Company five days exter. Chase had recently developed the C129 Provider, which the USAF was considering as a follow on to the C-119. The Kalsers seed that they whiled to build the C-125s at

their Willow Run plant. Upon learning of the Chase purchase by Kaster, Richrids's representatives, including ex-Senator Millard Tydings of Maryland, went to see Under-Secretary, McCome to voice their objections. They believed that Farirchi was seating, Salaer the soliteved that Farirchi was seating, Salaer the was the chief competitor to the C+19. They recommended that Kalaer be given the C+29 program and that Fairchild be given all of the C+19 production.

Later in May 1951. Headquarters USA-Later in May 1951. Headquarters USAprogram. Natiser was slatted assistance of the C128 and C-119 production by Farchidi, would be transferred to Chicago the C128 and C128 and C198 was to be a production run of 200 aircraft. Headquarters AMC planned to award a context to Fairchidi for 50 (pasking at 60) C-119e per month at Chicago and 35 per month in Happerstown. The contract was amended on 13 September 1951 to increase the funds to be obligated or expended to \$18,000,000. Changes in the contract resulted in the purchase of 165 C;1196s for the USAF and another 28 for MOAP. Because Aeroproducts propellers were to be used, the aircraft were designated as



Fairchild was so extremely proud of the C-119's siding capabilities at the Chosin Reservoir during December 1950, that it released this advertisement. Fairchild facility due to fer risk. Subsequently, ADC had agreed to consider moving to accommodate Fairchild activities. AMC believed that \$800,000 would resolve the fire issues, but the fire underwithers disagreed and estimated \$2,250,000. The issue became moot when AMC decided that the extra protection afforcided by six separate buildings would not be justfied by the cost. On 11 January 1952, Headquarters USAF.

"I validately "leaf". Preliationaries Usakbounded for terminate the Chracap program bounded for the preliation in 0-119 requirements. Four days little, under the preliation of the heldutrial Resources Division that "... this was ministro to accomplished in an orderly fashion lowests complete encountion of the Chicago facility it is feasible to do so! He further suggested that the inclustrial Resources Division examine the situation to determine if the plant might be able to be kept on a standardy basis.

Kaiser had been contracted to produce additional tooling for the Chicago plant. This issue was not addressed by the Headquarters USAF directive to terminate the Chicago program. On its own initiative. AMC directed Kaiser to ship all completed tools requested by Fairchild to Hagerstown and to complete any tooling in work. All of the ordered tools were completed. On 27 March 1952, the Air Force Plant Representative at Chicago was authorized to ship the tools required by Fairchild in Hagerstown and to store the remaining tools at Willow Run. On 7 May, the representative was instructed to store the extra tooling at Chicago. Then, on 2 June he was ordered to ship the extra tooling to Hayes Aircraft in Birmingham, AL where it would be used in the C-119 reconditioning program.

POLITICAL POTBOILER

On 21 May 1952, when plans for the use of the Chicago facility were finally concluded, Representative T P Sheehan. Congressman from the Illinois 11th District, wrote Gen Edwin W Rawlings, then AMC commander, requesting information on the termination and the future of the plant. He was informed that changing requirements as a result of the Korean War and general international situation dictated that C-119 production be reduced. The letter went on to state that because Kaiser was far closer than the Chicago plant to producing the airplanes, Headquarters AMC had decided to terminate the less advanced Fairchild program in Chicago. While this issue was swiftly and quieth put to bed, a furious battle was brewing on Capitol Hill

Congressional Cauldron An explosion erupted on the floor of the House

of Representatives on 21 May 1952, when Representative Aivin O'Konski of Wisconsin, under the cloak of Congressional immunity, delivered a verbal assault on both Henry Kaiser and AMC. He referred to Mr Kaiser as a bloodsucker and charged him with awinding the Government by charging two to three times more than Fairchild for each C-119. In addition, the charged him

Kaiter owed \$13,500,000 of the \$15,000,000 can for the Wilkow Plan facility. O'Konski acoused former Under Secretary of the Air Force John A McClone with influence pedding to enhance Kaiser's financial position. He went on to state that both McClone and the Reconstruction Finance Corporation stood up for Kaiser to state that both McClone and the Reconstruction Finance Corporation stood up for Kaiser to Keep the company from Decorning insolvert. O'Konsik's harangued with a call for an investigation of the Kaiser-Government relationships.

Henry Kaiser made a sworn statement refuting O'Konski's charges and the statement was read into the Congressional Record on 17 June 1952. Kaiser came to Congress to refute the allegations and the result was that O'Konski apologized for not checking his facts before going public. Representative O'Konski agreed to give equal publicity to Kaiser's rebuttal Kaiser issued an 85-page rebuttal to the media with a statement marked 'from the office of' O'Konski. There was a statement that O'Konski was 'entirely satisfied' after reading the rebuttal and that it 'completely refutes all the charges I made.' Kaiser went on to say that because O'Konski had agreed that he would make such a statement on the floor of Congress, they released the document. Later that day. Congressman O'Konski could not be located for comment. However, both O'Konski's retraction and the report were presented on the floor of Congress by Louisiana Representative James Morrison. O'Konski suddenly appeared on the Washington scene and protested that he had not issued the retraction. On the following day, Kaiser reinforced their position, stating that O'Konski definitely wrote the news release... retracting false charges which the congressman had recently made against the Kaiser companies and its executives. Any statement by Congressman O'Konski to the contrary is neous charges.

Then, on 15 August, Representative O'Konski attempted to tear Kaiser's statement apart paragraph by paragraph. Concurrently, the House Armed Services Committee began hearings on the Kaiser contracts. In the end, the Committee found that the entire issue centered around opening second sources for supply. and cooled its fervor for further investigation However, Senator Styles Bridges (R-NH) stated that this was an argument against Kaiser, because the Air Force was not getting the planes as cheaply as possible. The senator contended that the USAF was paying \$1,200,000 per airplane from Kaiser versus \$260,000 from Fairchild. He recommended that the Senate Appropriations Committee review the Kaiser contracts prior to passing on the Air Force FY 54 funding requests. In addition, Senator Bridges arranged for the Senate Preparedness Subcommittee to investigate the matter, despite the fact that the House Armed Services Committee had recommended dropping it.

Between December 1952 and May 1953, investigators for the Senate Preparedness Subcommittee gathered information for the Kaiser investigation. One of the investigators informed Edgar Kaiser during a visit to Willow Run that: "I have told Senator Bridges that I can find nothing wrong with your dealings with the Air Forceno collusion, fraudulent action, or acts of unethical dealings."

On the morning of 2 June 1953, the Senate hearings began. Senator Bridges announced that he planned on hearing testimony by former Under Secretary McCone (and by Generals Cook, Bradley, and Wolfe. At the conclusion of John McCone's testimony, General Cook was called upon. Senator Bridges referred to a 23 October 1950. letter in which Gen Cook had rec ommended awarding the second production facility to Fairchild, and asked why he had changed his mind between the date of the letter and 15 December 1950. Apparently the senator did not know, and Gen Cook did not volunteer the information, that on 1 December 1950 he (Cook) had reaffirmed his 23 October 1950 reo ommendation, or that as late as 4 December 1950 Gen Cook had informed Gen Wolf that he believed Fairchild should operate the Chicago site for additional C-119 production. Senator Bridges continued his interrogation

of Genr Cook, complaining that Cook should have committed many of the stranschool when the manufacture on the stranschool which had taken place some two and a fel years earlier. Genr Cook, when present of the control of the arrivers, thougethy saked to permission of the arrivers, thought years of the control of the arrivers, thought years of the control of the con

both Henry Kaliser and his son Edgar defender hear records. Edgar Kaliser suggested to Chief Coursel Arton was attempting to crush him. During the second day of hearings, at debates became most because the Air Ford had terminated the Kaliser C-119 and C-12 programs, staining that the cancellation we independent of the present Senate hearing now in progress. The Senate hearings we then recessed until some future date.

CONCLUSION Despite all of the wrangling and shifts in

dynamics due the eigencies of the time, it is clear Packet and C-119 Fingle Boxton has their riches in the annals of military avists Regardless of the trials and tribulation encountered during their production phases, both aircraft met the exchanging requirements environment; perhamore through bind lack than engiseery provess on the part of Fairchild, and more as isstalment to Yankee ingenuity on the part follows the light crews and the maintenance.

C-119 Description

The Fairchild C-119 is a twin-engined, twinboom, high wing, land monoplane of all metal construction, designed for use as a cargo carrier tenon/negatroon transport with an aerial supply delivery system, an air evacuation aircraft and a caron drop airplane with provisions for the delivery of both heavy and light equipment and supplies. A retractable tricycle landing near system with a steerable nose. wheel is installed. The four-bladed, constant speed, reversible-pitch propellers are driven by a pair of supercharged Pratt & Whitney name are of sufficient height above the ground to permit ease of loading of large objects through the open cargo doors at the aft end of the fuselage.

C-119 Principal Dimensions

Wingspan	109t 30in
Fuselage length	60ft 6Nin
Overall length	86ft 5Nin
Right	27ft 6in

The pargo compartment has a rectangular cri section that permits the carrying of a wide variety of equipment, while the tricycle landing gear affords a level floor to facilitate loading. The floor height is four feet above the ground outboard through an arc of 90° offering complete clearance for loading. Paratroop doors located within the clamshell doors could be opened in flight for troop drops. For heavy cargo drops, the clamshell doors would be removed so that the cargo could be extracted through the large opening

C-119 Cargo Compartment Dimensions

HIGH	98.20
Langth	36h 11in
Dargo Floor Area	35381

Mission Configurations

The C-119 Flying Boxcar could be configured

Cargo Carrier: The C-119C is capable of carning the following items: 75mm howitzers 37mm guns, 40mm anti-aircraft guns and carrispes, 2%-ton 6x6 trucks, large and small air. craft engines and cradles, propellers, and a wide variety of other military equipment Through the use of special ramps and load



Note the offset cylinder banks that offered a modicum of cooling for the rear cylinders. The black cooling shrouds that covered the cylinders from front to rear also improved cooling airflow. These shrouds may be seen on the platforms of the two workstands. Also note now the removal of the three primary cowl panels afforded access for engine maintenance, USAF

distributing devices on the cargo floor, the airof the cargo compartment, giving a total capaccraft could carry 75mm ouns and half tracks.

and 155mm howitzers. Equipment Drop: The airplanes were Troop Transport: Equipped with 20 folding equipped with an electrically operated, autoseats along the left side of the aircraft and 22 matic, aerial delivery system that was canable equipment. An additional 20 troops could be floor at the forward end of the cargo compartcarried if seats were installed along the center ment. Heavy and bulky equipment was

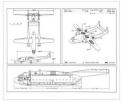
seats along the right side, the airplane could

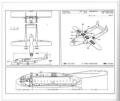
transport 42 troops or paratroops with their

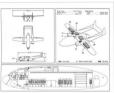
	C-47	C-46	C-82A	C-119G
Empty Weight (lb)	18,200	30,000	31,498	39,000
Gross Weight (b)	26,000	45,000	54,000	64,000
Payload (b)	10,000	10,000	20,000	32,000
Max Speed (mph)	234 @ 10.000ft	270 @ 15,000t	248 @ 17,000h	253 @ 17.900h
Cruise Speed (mph)	150	173 @ 10,000	216 @ 10,000h	162 @ 5.000t
Initial rate of climb (fpm)	104	574	730	852
Service Ceiling (ft)	24,000	24.500	21,200	21,580
Range (statute miles)	1.600	1.200	1.920	1.415
Accommodations				
troops	27	50	42	42/62
litters	24		3	35

of dropping twenty 500 lb bundles in eight to

ten seconds through paratainer doors in the







Above left: This inboard profile for the C-119B reveals its salient internal features, including retracted nose landing year, flightdack, main carno compartment with troop O2 bottles located in the middle of the fuselage,

and loading ramp. Above: This inhount profile for the C-119C reveals its salient internal features that were similar to the C-119B, except that the troop O2 bottles

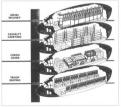
Left: This inheard profile for the C-119G is in error in that it retained the large single nosewheel tire. The drawing reveals erected web troop seats along the sidewall, cargo tiedown in the center, and erected litters.

were moved to the forward cabin. Below left Load varieties for the C-119.

Below The C-119's fuselage housed these pieces of equipment: 1. Driftmeter

- 2. Navinator's Radio Operator's
- 3. Lavatory equipment 4. Radio equipment 5. Flectrical inverter
- 6. Hydraulic equipment 7. APP environent 8. Anti-icing heaters
- 10. Automatic pilot servo motors 11. Wing flan mechanism
- 12. Life raft compartment 13. Crew oxygen containers

- 14. CO. fire extinguisher 15. Paratroop door
- 16. Troop oxygen walk-around unit 17. Litter installation 18. Troop seats
- 19. Oxygen filler valve 20. Automatic pilot equipment 21. Troop oxygen cylinders
- 22. A-2 fire extinguisher 23. Main entrance ladder 24. Crew oxygen walk-around units
- 25. Pilot's seats 26. Rudder pedals







He ain't no customs man! This technical sergeant was inspecting the flight control cables located within the left boom. Four oxygen cylinders were located overhead along with the hot air anti-licing duct for the empennage. Value Force Association

The overall size and capaciousness of the interior of the C-119 main cabin is sparset in this view. The troop seats were stowed along the sides of the cabin. The rails above the seats provided the upper support for the web seat backs. A fire bottle is visible in the upper left. The tiedown rings



may be seen in the floor, Padded insulation passels in the overhead provided a modicine of sound attenuation, Undernated, selding heavy raiss or under conditions of high humidity, water was known to come cacaciding through the edges of these planes. Entry to the occipit as gained through the opening to the left of the forward buildhead. Access to the nose gear compentment was gained through the passel by the officer's know. A critical and chemical totals was focasted in the lawratory compartment who have the conflict was focasted in the lawratory compartment. The conflict was focasted in the lawratory compartment who have the conflict was focasted in the lawratory compartment.

extracted by parachute for delivery out the aft end of the aircraft when the clamshell doors were removed.

Ar Execution: As an air ambulance, the aircraft was equipped with 35 liters – 20 on the left and 15 on the right side of the cargo compartnet. Seen Sees, five litters high, were suporated by standins and web stages. While 35 was the maximum number of litters that could be carred, Juring emergency conditions the siptimes could be configured to carry 76 500s – 85 seeked and 14 little politerists with

The main differences between the C-119B, C-119C, C-119F, C-119G, C-119J, and C-119L series airplanes are presented in the table

structures

The structural design concepts of the C-82 Packet (as described in Chapter 1) were carried toward to the C-119 Flying Boxcar. The fuse(age) was an all-metal, semimonocoque structure constructed of aclada frames, longitudinal stringers, longitudinal and transverse beams covered by atclad skins. The booms were an all-metal, semimonocoque structure constructed with hydro-pressed frames, hat-section stringers, and light aluminum alloy skins. The wings were all-metal, cartillever structures consisting of a centre section, outer panels, and tips.

Engines

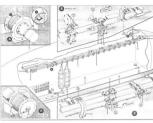
The Patt & Whitney R-4360-20-WA is an air accooled, reciprocating powerpher rated at 3.250hp (dry) and 3.500hp (very) at sea level under standard day conditions at 2.700pm. Nicknamed the 'com cob', the engine has 36 cylinders arranged rated by no resident of 5 seven cylinders arranged rated by nicknamed the 'com cob', the engine has 36 era en installed on each engine. Each in our rows of seven cylinders each, it total of 36 spair, plage en installed on each engine. Each in our rows of seven charged the provide coding at the cash row of cylinders. A single-state, a single-state,

variable-speed supercharger, driven by a pydraulic coupling, is controlled by an automatic power control unit that operates as a carburetor throttle valve and regulates blowered speed as required so as to maintain the selected manifold pressure. A torquenter syselected manifold pressure. A torquenter syselected manifold pressure, a torque output at the measures the torque output at the propeller shalf and presents this information on a torquenter in the occipit.

The engines are equipped with an automatic power control unit half undication to unit half undication to undicate cally maintain manifold pressures up to the morpino critical alfaliade as selected by respirate control or engine critical alfaliade as selected by engine control of the carbon or alfaliade, and selected by engine control or size of the carbon or alfaliade, and believe present or size of the carbon or alfaliade, and believe special or the carbon of the carbon of

Component	C-1198	C-119C*	C-119F	C-119G	C-119J	C-119L
Engines	R-4360-20	R-4360-20WA	R-3350-85/-89/-89A	R-3350-85/-89/-89A1-89B	R-3350-89B	B-3350
later injection	No	Yes	Yes	Yes	Yes	Yes
Polantal stabilizer tips†	Yes	Some	No	No	No	No
ling faces	Electric	Electric or Hydraulic‡	Hydraulic	Hydraulic	Hydraulic	Hydraulic
anding gear	Electric	Electric or Hydraulict	Hydraulic	Hydraulic	Hydraulic	Hydraulic
topiles	Hamilton Standard	Hamilton Standard	Hamilton Standard	Aeroproducts	Aeroproducts	Hamilton Standard
	2H17Q3-26R	2H17Q3-26R§ 2J17Q3-26R	A644FN-C2	A644FN-C2	F40K-1-198-18MZ	(three-bladed) 43H60
Cargo doors	clamshell	clamshell	clamshell	clamshell	Flight operable	Optional

The CHIDC was essentially a C-119C with hydraulically actuated landing gear and flaps; † Horizontal stabilizer fips were installed on airplanes 49-119 thru 49-199 only 8CHIDC 48-119 thru 51-2564 were electric, while 51-2587 thru 51-8273 were hydraulic; § This change in propellers occurred with C-119C-22-FA, sin 51-2532.





1 Cable drum 2 Cable securing link

2. Actuator 4. Forward pulley

5 Monorall 6 Ennward ston 7 Trolling

8 Bundle release mechanism 9. Locking plunger 10 Cable fork arm

11 Bear ston 12 Aft nulles

12 Cable ball 14 Limit switch

15 Drive cable 16 No 2 trioger 17. Locking plunger

18 Bundle book 19. Cable guide tube 20. Anchor cable forward attachment

21. No 1 trigger 22 Anchor cable aft attachment 23 Clutch control unit

24 Cable drum clutch lever 25 Anchor cable



This view reveals the details of the interior of the clamshell doors, with the lightening holes in the frame, padded insulation, portholes with their blackout curtains, and the troop door. A maintenance ladder to gain access to the upper portion of the aircraft while on the ground was stowed above the erected web troop seats. On of the insulated panels was opened at the aff inboard corner. Note how the two loading range were placed together to permit safer access an egress for the visiting Civil Air Patrol Cadets.

Some MC-119Js were equipped with a plush seromedical evacuation module that insulated the cabin from noise and temperature. This module was originally designed for VIP use at served operationally with both the Indian and Italian air forces. This view is looking forwards the cabin forward bulkhead may be seen alea. of the module doorway. Note the access panel the nose gear in the lower portion of the form bulkhead. Standard web troop seats were erected on the left and right foreground, while four litters were installed on their stanchism in the forward right side of the module.

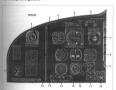


Some airplanes were equipped with R49 20WD engines that were basically the same the R-4360-20WA, except that the autom control unit had been replaced by a solen valve that controlled the flow of engine oil to blower hydraulic couplings. Now the sa charger was no longer a low and variable so blower, but a two-stage blower (low and he

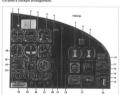
Beginning with the C-119F, the airple were equipped with Wright R-3350-898 to compound engines. These engines have to blow-down turbines located 120° apart and the circumference of the engine. While sin to a turbosupercharger, the turbines use kin energy rather that the pressure of the enexhaust and, instead of driving a superchi that provides ram air to the tops of the cat



Plot's cockpit arrangement.



Co-pilot's cockpit arrangement



Plot's instrument panel.

In the see pleased directly to the carachisath see gear through a system of Zerol bevel gas. A full coupling transfers power to the carachisath dive gas. The furthers have no assist corriols since they operate at a consist to of 6.82 in the carachisath speed. We have been seen to of 6.82 in the carachisath speed. We have been seen to of 6.82 in the carachisath speed. We have at 2.600 pcm, at reasoning lower, with whitmer developed paperon-power, and therefore developed paperon-power, and there developed paperon-power. We have the consumption for the paper of the carachisation seeming, the further power like the refuse of consumption. An approximation are refused to the consumption for the carachisation of the cara

Co-pilot's instrument panel.

armored exhaust hood is installed on each furbine. Each engine is equipped with a twospeed supercharger, water injection system, fuel metering system with impetier fuel injection, torquemeter, and low tension ignition system. At take-off, each engine could develop 3.250bph at 2,900pm (dry) and 3,500bph at 2, 2,900pm with water injection. Power could be increased for take-off through

use of the water injection system. A water-alcohol mixture was contained in a 56-gallon tank located in the wing center section. A 28-volt DC boost pump was energized to supply the water-

alcohol mixture to the engines. The manifold pressure could be boosted to 45 inches of mercury (Hg) through use of this system. With a bit tank of water, both engines would be supplied for about 16 minutes with the engines operaing at maximum power. In the event of an engine failure, the water flow to the dead engine would automatically cease, while flow to

Propeller Systems

The C-119Bs and C-119Cs through the C-119-C-21-FAs were equipped with 15ft diameter,

> by Fairchigh 6280735





walkway. The horizontal red stripe was part of the prop warning line. The horseshoe antenna in the foreground was for the instrument landing system. Behind the prop warning line was a fairing for at ADF antenna. Further back was an HF radio mast, Four fuselage air vents and four APU compartment exhaust vents followed. An LF radio wire is also visible. F D Horkey been relegated to the bonevard at Davis-Mon-

four-bladed Hamilton Standard 2H17Q3-26R hydromatic full feathering, constant speed. reversible propellers. Beginning with C-119C-22-FA, serial number 51-2532, the aircraft were equipped with Hamilton Standard 2J17G3-26R hydromatic full feathering, constant speed. reversible propellers. The latter propellers were also installed on the C-119Fs.

C-119Gs were equipped with 15ft diameter. four-bladed Aeroproducts A644FN-C2 full feathering, constant-speed, reversible propellers. Aeroproducts was a division of Genarel Motors. There were several incidents and accidents that resulted from uncommanded propeller reversal - sometimes in flight. Through the investigation the root cause was traced to a regulator in the propeller system. A technical Order was issued for C-119s with these Aeroproducts propellers to have the reverse feature locked out until a design change and retrofit could be implemented. This limitation was in effect for about six months during the mid-1950s.

The C-119Ls were created by retrofitting 22 C-119Gs with three-bladed Hamilton Standard 43H60 hydromatic propellers that were full feathering with reversible pitch. These propellers had had a non-rotating integral oil control (IOC) incorporating an independent oil system, mounted between the engine nose section and the propeller. An emergency oil replenishing system was provided to replace oil lost from the IOC with engine nose section oil. A 28-volt DC boot type electric heating element was installed along the leading edge of each prop blade for deicing. The Hamilton Standard 43H60 hydromatic propellers came from Lockheed C-121 Constellations that had than AFB, AZ. This change resulted in a 20% improvement in climb and a 7% gain in cruise performance.

Fuel System

A pair of fuel systems is employed to service each engine. The two systems are interconnected by a crossflow system that permits operating either engine from either fuel source. The aircraft is equipped with four fuel tanks: left and right inboard, each with a 464-gallon capacity, and a left and right outboard, each with an 864-pallon capacity. While this was the maximum capacity, the total useable fuel was 2.624 gallons or 15.744 lb. For extended range operations a pair of auxiliary fuel tanks could be installed on the cargo compartment floor affording an additional 1.020 gallons or 6.120 lb of useable fuel. Refueling is accomplished through overwing filler ports.

Flight Controls

The primary flight controls are independent mechanically operated systems consisting of the ailerons, elevators, and rudders. Aerodynamic boost devices, known as control tabs, are incorporated into each system so as to

The allerons are split into inboard and outboard segments. Flettner tabs are incorporated into the inboard allerons to assist in moving the controls. The right inboard alleron have a trim tab that is used to make adjustments that affected the lateral balance of the airplane. The elevator is full-span across the aft edge of the horizontal stabilizer. An elevator spring

tab, operating automatically with control or umn movement, assisted the pilot in making control movements in flight. Dual rudders are hinged to the aft spar of fire

vertical stabilizers. Spring tabs, located at the bottom trailing edge of the rudders. employed to reduce the control forces. The ailerons, elevator, rudders, and to

consisted of an aluminum monocoque stu ture covered by fabric. Such surfaces often excellent feel for the pilots and reduced weld Slotted wing flaps are located on the or board wing panel and the wing center sedio The flaps are hydraulically actuated and extrically controlled.

Electrical System

The aircraft is equipped with a 28-volt DC at trical system powered by a battery a pill engine-driven 28-volt DC generators, or an au iliary powerplant. The 115-volt AC system nowared by the 28-unit DC system driving volt, 400 cycle single-phase and three-ph inverters. The 24-volt, 34 ampere-hour aid battery is located under the cargo comp ment floor just aft of the rear spar frame at accessible from the outside of the airs through a hinged panel. Each engine equipped with a 300-ampere, engine-dra wide-speed range, direct current general mounted on the accessory drive sectional engine. A Solar auxiliary powerplant (ARI located on the A-deck behind the coand consists of a 28-volt. 200-ampere on tor driven by an internal combustion ergiexternal power is not available, the APP II capable of starting the engines and supplied power for ground checks.

Communications & Electronic Equipment The C-119 was equipped with a variety of communication and electronic equipment for intercommunication, communication, navigation, and identification. The table below summarizes the communications & electronic equipment intaffect on the C-119.

be

Landing Gear System

The tricycle landing gear system consists of a pair of main gear that retract into the booms aft of the engines and a steerable nose gear that retracts into the forward nose beneath the postal. The nose pear is steerable through 60°.

either side of center. The main gear is equipped with Type II rylor coord 15.10.20.1.4-ply rated tires. Initially the nose gear was fitted with a single wheel, that was known for its shimmy problems. A times the shimmy was so bad that the plots could not read their instruments because of panel vibration and radio boxes were known to have punched their way through the fuse-lage skin. All C-119Fs and subsequent series were equipped with dual nosewheels were also retrofitted on a number of C-119Cs.

Normal gear operation was accomplished electrically on all early aircraft. A hydraulic system was installed on some late aircraft in the C-series giving them the designation of C-119CF. With all subsequent series aircraft, the landing gear is hydraufically operated.

The noise general representations are the noise general state goar to trainers a 32ft radius on a pared surface, with the wright describing a 70ft arc. The pilot has a nose gear steering handle to control the position of the nose general the ground. At take-off, a centering device prevents the gear torn being out, or cocked on landing.

Cargo Handling Equipment

C-119K

Cargo manding Equipment
A Block and tackle firing was employed to load
equipment. A pulley was attached to a tie down
titing at the forward end of the cargo compartment. By pulling all, the block and tackle would
provide a 3,1600 build post pulling from thereby permitting the loading of a 13,000 but wheeled vehicle
up the ramps. Should the acid be or noted out the
forward entry door, this force would be reduced
to a 1,800 building force permitting the loadting the state of th

ing of a 7,650 lb wheeled vehicle up the ramps. A total of 78 cargo lie-down fittings were installed in the cargo compartment floor, spaced to provide a variety of tie-down options. A pair of cargo tie-down kits were also carried on the airplane. These were employed in securing the cargo to the tie-down fittings. One kit contained 28 x 10,000 lid devices, while the

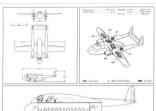
Two treaded light metal loading ramps with a 9,400 lb per ramp limit were carried to facilitate loading wheeled cargo through the aft cargo doors. These ramps could be stowed beneath the troop seats along each side of the aircraft when troops were not being carried. If troops were carried, the ramps were lashed to the center of the floor. If the center seats were installed,

when toops were not being carried. If troops were carried, the ramps were lashed to the center of the floor. If the center seats were installed, the ramps were removed from the airplane. A cargo loading roller, located at the eff edge of the floor at the centerline, was used to assist in easing cargo into the aircraft. In addition, four

metal skid strips, extending the length of the cargo compartment, facilitated loading of bulky cargo and prevented scuffing of the cargo floor A 28-volt DC electrically operated aerial delivery system was employed on the airplanes. to drop cargo while the airplane was in flight The cargo was stowed in special containers called paratainers or paracans that were attached to trolleys rolling along a monorail extending down the center of the cargo compartment ceiling. A canvas duck guide curtain formed a channel for the paratainers to preclude swaving as they traveled to the drop point above the opening in the cargo compartment floor. Static lines were used to open the plane. A jumpmaster's panel (either fixed on the center post of the clamshell doors or portable, depending upon the aircraft) was

portable, depending upon the aircraft) was used to control the paratainer delivery system. The C-119Js were equipped with flight-operable doors in lieu of the clamshell doors. They were also known as beavertail doors. These doors consisted of two majox, components —

Description	Army Navy Specification	C-119B	C-119C	C-119F	C-119G	AC-119G	Al
WF Command Radio	ANIARC-3	X					
VHF Command Radio	ANIARC-3 or -27		X				
UHF WHF Command Radio	ANIARC-27			X	X	X	X
UHF Radio	ANIARC-136					X	X
UHFIMF Transciever	Wilcox 807A					X	X
PM PM	FM-622A (2)					X	X
Liaison Radio Set	ANIARC-8	X		X	X	X	
Liaison Radio Set	ANIARC-8 or -25A		X				
UHF Transciever	Collins 618T-3					X	Х
LORAN	AN/APN-9	X		X	X		
LORAN	ANIAPN-9 or ANIARC-21		X				
LORAN S-Band	ANIAPN-70					X	
LOBAN	ANIAPN-70B						Х
Radio Compess	ANIARN-6					X	X
Radio Compass	ANIAPN-7	X		X	X		
Radio Compass	ANIARN-6 or -7		X				
Onni-Range	AN/AFN-14					X	X
Looker	RC-103A	Y					
VOR Receiver	RC-103A or AN/ARN-14		X				
Glds Path Receiver	AN/ARN-SA	X					
Glda Path Receiver	AN/ARN-5B or -18		X				
TACAN Receiver	AN/ARN-16			X	X		
Bids Path Receiver	AN/ARN-18					x	
Merchane	ANAIC3	X					X
Iteratore	ANAIC-3 or -8		x	x	X		^
Messon	AN/AIC-10					X	
Itercon	AN/AIC-10A						Х
Interphone (Glider)	ANIAIA-1A	X	X				
Warker Beacon	RC-193A or ANIARN-12	X					
Warter Beacon	ANIARN-12 or ANIAPN-34		X				
Motor Beacon	ANIABN-12			X	X	X	Х
Rado Attrestor	ANIAPN-1	X		X	X		,,,
Radir Atimiter	ANIAPN-1 or -42		X				
Navigation Radar	ANIAPN-12	X	x	X	x		
Bester Radar	ANIAPS-42*		x	Y	Y		
E	SCR-695B	X	X*				
Light FF Transconder	ANIAPX 6		x	X	x		
Laint FF Transponder	AN APX-25			^		X	x
Energero Kever	ANIABA-26			X	X	Α.	^
Discion Finder	ANIARA-25			^	^	X	
UF Rerord	ANIARO-25					x	
Radar Altimeter	ANIAPN-22					Ŷ	
200	ANIARN-21					x	Х
Speech Encryption	TSECIKY-8					x	Ŷ
Homne & Warning Radar	ANIAPR-25					0	Ŷ
Doorle Rader	ANIAPN-147						x
Teran Arcidance Radar	ANAPO-136						Ŷ
Energency Radio	ANCRT3						Ŷ
Consideral Lago	WICHI-3						х







This inboard profile for the XC-120 reveals its salient internal features. The entire crew compartment is located high in the main tuselage, while the detachable pod is shown configured for troop transport.

The XC-120 lifts off with an experimental welded slab-sided prototype pack mounted under the fuselage, Vis P M Bowers

Without its pack, the XC-120 Packplane had the stance of an insect. W J Balogh via MSgl D W Menard

a binged bood, that faired out the top and sides of the aft end of the fuselage, and a floor that faired out the bottom of the aft end of the fuselane. This could be retracted within the bood thus forming a capacious opening larger than the vertical cross-section area at any station within the aircraft's cargo compartment Both the hood and floor were hydraulically actuated and electrically controlled. When in flight the lage. The flight operable doors were not for use by paratroops. The heavertail doors were fig. use with an aerial retrieval system. However, they could be used for emergency lettison or bailout. Performance of the C-119Js was simlar to that of the C-119Gs. Under Contract AE36(600), 2199, 106 beaver

tal doors were built by Fairchild; white only 5-C119Fs and 18 C 119Gs were modified to the C-119J configuration. The aircraft were modified in accordance with TO IC-119-530, data 15 June 1985. Subsequently, the C-119F with the beavertail doors were modified by the C-119F with the beavertail doors were modified by the IC-119F-504 to replace the Harmino Sandar propellers with Aeroproducts props; the bringing them to the C119G standard.

Emergency Egress

From the beginning, emergency egress for the C-119 was intended to be via the too doors located within the claimsheld doors. Exprience showed that, with a cargo load, yet may not have been able to get past the carin time to successfully bail out of a crippted plane. A better means was required. An emergency egress hatch was cut into cocket floor behind the pilot's seat. The six

rior skin was cut to offer a door. The two winterconnected with a chuld between the cop in floor and the airplane exterior. The exterdoor was slaved to the hatch in the code floor. When the floor panel was lifted past an scribed point, the exterior panel would fall a from the aircraft belly, thereby permissing in crew in the floorward part of the similare as un.

means of egress in flight

Early on, the exterior doors departed the craft without explanation. On at least one or sion, while the C-119s were making as take-offs, the tower saw a belly door departs alcraft and called the formation to informs of the door departure. Crewmen on other craft in the formation dutifully lifted the hatch to inspect for departure, of, the exit. N

This right side view of the XC-120 shows the landing near and the ADE antennes under the left hopen, W.I. Baloch via MSot D.W. Menand

Left side view of the XC-120 with support popper under the ventral fins. W J Baloch via

Details of the front and of the XC-120 are revealed in this view. The strut cover for the forward open was attached to the strut. USAF

A tractor nushed the nack, with its removable dolles, under the XC-120. The tractor operator took directions from a mulde walking at the side of the tractor. A mechanic riding in the top of the and also provided guidance and later attached the god to the plane. Vio P M Rowers

panel. Alas, there was a rain of exterior doors from all of the aircraft. The story was aptly captured by Col Bob Stevens, USAF (Ref) in his There I Was partoon series.

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Ditching was considered to be an absolute effort of last resort. The crew was instructed that wings placed the bulk of the aircraft in the water from the start. The aircraft's non-watertight fuselage had a tendency for the nose to roll under and break away. If the nose gear was lowered, there was an even greater tendency for the nose to tuck under

During testing, a C-119 was ditched. The danshell doors separated from the aircraft and a wall of water careened forward, filling the same compartment. The aircraft sank before the initial spray of the impact dissipated. While in ground training a film of this test was shown to anyone who flew as a crew member, the Airplane Flight Manual had a paragraph on ditch-

New Model C-119s

Both the YC-119D and YC-119E were termi-

nated before any prototypes were built. With the C-119Fs, the electrically operated landing cear was replaced with a hydraulically operated system and Wright R-3350-85 turbocompound engines were installed in lieu of the Port & Whitney R-4360s. The horsepower rathas for the two engines were similar. The higher horsepower on the R-3350s was made possible through the use of power recovery turbines on each of the three exhaust stacks. With the R-4360s, two exhaust stacks were located at the four and eight o'clock positions of the cowls. With the R-3350s, an additional stack ass added at the twelve o'clock position. To outperformance, ventral fins were reinstituted. These fins were flattened on the bottom in order to improve ground clearance during take-off station and landing flare. Early production C119Fs were delivered without the ventral fins. but they were subsequently retrofitted. A dual









beginning with the C-119Fs. This series made its maiden flight in December 1952.

A total of 247 C-119Fs was manufactured. the Royal Canadian Air Force, while Kaiser built the remaining 71 aircraft. Under the Mutual Defense Assistance Pact (MDAP), a total of 88 of these aircraft were delivered to Relaium Italy, and Norway, Fairchild also produced 50. identical airplanes for the USMC that were designated R4Q-2s.

Boycar was the C-119G. These sircraft differed from their predenessors in having Aeroproducts propellers in lieu of the formerly installed Hamilton Standard props. Early problame with the new Aeroproducts prop governors resulted in a delay of initial deliveries of the C-119Gs. A total of 25 C-119Gs was delivered to the Indian Air Force. Production of the 480 airplanes in this series was completed in October 1955

CONVERSIONS three resulted in further operational applications

Fairchild ventured into five additional cargo versions of the basic C-119 sircraft. Two were oneoff test conversions: whereas the remaining

XC-120 Packplane

the C-119 when one was converted into the one and only XC-120 Packplane. On 19 April 1948 Supplemental Agreement No 1 to the C-1198 procurement contract called for the production-line conversion of aircraft s/n 48-330 into the Packplane. The aircraft retained the original wing and empennage and added a revised cockpit and upper fuselage. The landing gear was a four-legged affair that retracted into the booms. This airframe was flyable with or without the detachable pod. Multi-mission pods were conceived for use as cargo or troop carters or an air-rielly-grable field hospital. This ungainly looking machine first flew on 11 August 1950 with its pack and 29 August 1960 without its pack. The aircraft had a 24,000b psyload for cargo. The XC-120 was operated

The sole purpose of this aircraft was to test the practicability of cargo pack carrying an craft. A glider tow attachment fitting was

Possible XC-120 Personnel Loads

Aeromedical Evacuation

C-119H Skyvan

The C-119H Skyvan was an attempt to come the chronic performance and stability prolems with the Flying Boxcar. Air Materiel Con mand requested Fairchild to investigate the problems. Fairchild submitted a proposal free design that would reduce wing loading to pe mit safe operation at lower airspeeds, cored the stability problems, improve the taked and climb characteristics, and increase to structural strength of the airplane. The boom were lengthened, the wing was changed on trol surfaces were enlarged, the fuselage will strengthened, and the fuel tanks were to be carried externally. This new airframe was designed to carry a 16,000 lb payload on 1.000-mile radius resupply mission with a performance except cruising speed except ing that of its predecessors. It was anticipal

A standard cargo/troop carrier pack was attached to the XC-120. W J Balogh via

The XC-120 was carrying a Blood Donor Units for the USAF Medical Service as part of the bill program. N E Taylor via MSqt D W Menard The sole XC-120, 48-330, in flight without its pr

scanned











LSJones

Above right: Three-view of the YC-119H. Fax. File by LS Jones Right: The YC-119H retracts its goar on take-off

is feet of a pair of its predecessors. An instrumentation probe was installed in the left single. Farchild 12-440 via R Woodling

that a 12% loss in cruise speed would result from the changes.

Upon reviewing the engineering and wind

seel led data. Air Materiel Command (AMC) accessmended proceeding with the production of 16 C-118/ris even before the prototype had ben built and lested. A new plant in Chicago as is produce these airplanes. A month later, AIC did an about tace and terminated the production program until the testing had been completed. The new plant, generated about the northing prior forst flight, was not have 151 these airplanes built in Hagenstown, MD. The prototype airplanes. Air SI-1285s. was

use studype explaint, or 101-200, was used to support explaint. In the support explaint expla



and had good single-engine performance at an 80.000 lb gross weight.

The C-119H weighed approximately 51,000 be rempty, this being almost 5,000 leg peater than rempty, this being almost 5,000 leg peater than Fairchild's estimate. This discrepancy was determined to be parally the result of an att-minum shortage that had led Fairchild to substitute steel parals on the airplane (31 weight difference). Consequently, the aircraft was tail difference). Consequently, the aircraft was tail above, Fairchild's immediate solution was to add at 1,000 ble lead weight in the nose; thereby allowing the aircraft to enter the flight test producing the aircraft to enter the flight test producing the aircraft to enter the flight test producing the aircraft to enter the flight test pro-

gram and once again reducing its payload.

The C-119H also had the interesting aspect

of being one of a few aircraft participating in the early program to replace aluminum parts with magnesium parts. This was a design study program and apparently none of these parts were

ever installed on the acroat.
Fairchild had also proposed a four-engined follow on to the C-19H. While the USAF was considering the four-engined Lobeled C-139 Hercules as a replacement for the C-19H becomed for considering the xwas suggested that the C-19H be converted into a four-engined testabol and be considered as a potential intential written until the C-130s were available. With the demise of the C-19H program arganging, and to the





chord main strut and a pair of inboard struts supported each fuel tank.

Comparative views of the C-119C and YC-119H. Fairchild via 8 Woodling

production of any new Boycar airframe series: however, several other conversions were made. The C-119H featured these design simplifications that would have improved manufactur-

- ing and maintenance: . Three niece cowl
- Simplified flap mechanism geometry Package heater eliminated long ducts
- · Minimum filleting simplified manufacturing . Aridad a machanical trim tah
- · Fuel system reduction of parts, improved
- · Constant section center panel and nacelle - Straight-taper booms
- Four-holt hoom-stabilizer attachment. Four-bolt fin-to-stabilizer attachment
- Internal match angle boom-to-nacelle
- External match angle wing center section-toouter panel attachment

C-119.I

The C-119J or MC-119J was a conversion to replace the clamshell doors with a flight-operable beavertail door. Known as Fairchild Model 203, the conversions were made under Letter Contract AE36/6001-2199 A total of 52 C-119Es and 15 C-119Gs were modified into the C-119J door assemblies were produced. Use of these doors precluded the need for removal of the standard clamshell doors for special airborne recovery operations. The MC-designation was briefly used to identify those aircraft employed in the aeromedical evacuation role

C-119K

A single aircraft, s/n 53-3142, was converted into the YC-119K configuration with the addition of the General Electric engines mounted singly in pods beneath the wings. This prototype aircraft served as a testbed for the jet installation on the AC-119K gunships. Subsequently it was the support ship for the USAF Thunderbirds flight demonstration team. In addition, five other C-119Gs were converted to the C-119K configuration with the installation of the let engines and an anti-skid system for improved braking.

C-119L

The C-119L was the end of the line in the Boxcar series of aircraft. A total of 22 C-119Gs were modified into this configuration. Over the years, the existing hydraulic propellers experienced problems with leakage. When the oil was lost.

configuration in 1955. In addition, a total of 106 the pilot was unable to control the pitch of the propeller that could result in a runaway proc. solution was at hand in the late 1960s when three-bladed Hamilton Standard bydromer full feathering, reversible pitch propellers for Lockheed C-121s retired at Davis-Monta AFR were retrofitted

> The last C-119Ls in the inventory we assigned to the 129th SOS (CA-ANG), 130 SOS (WV-ANG), and the 143rd SOS (RI-AND These aircraft were retired to MASDC between 27 March and 27 September 1975.

RC-119L

The RC-119L was the reconnaissance versi of the Flying Boxcar. Little is known about the aircraft, except that, when flown for this mission the clamshell doors were removed and a pale mounted camera was installed in the at the lage. Only known RC-119Ls are shown beb-

Serial Remarks

53,3160 Transferred to the Royal Moroccan Air Forsi 53-3181 Assigned to the 302nd TAW (AFRes), To AM on 4 March 1973. To Dross Metals for reden on 14 September 1973. Transferred to RoCAE Destroyed in a ground fire on 1 June 1996.



Above: YC-119K, 83-3142, in its colorful flight test markings at Fairchild. This picture was taken at Dules International Airport, on 16 August 1959. Fairs McGrey via MScg D W Menard.

AC-119 Gunships

is addition, the different gunship convensions were made to \$2.0 **Hoofs. Twenthy-six aircraft were converted to the AC-1190.5 **Hood with aircraft were converted to the AC-1190.5 **Hood with aircraft and among plating. They carried a crew of AC-1194. Singer ships, similar to the AC-1194. Singer ships, similar to the AC-1194. When the AC-1194. The AC-1194. The aircraft plating the plating aircraft aircraf

C-119 Turboprop Conversion

If he early-order 1900, the USAF was invested in pursuing a strictoproconverse for the C-119 due to an increasingly appear official requirement for a short of the observation of the C-119 due to an increasingly appeared. Such an increasing was reads, but an increasing was reads, but an increasing was reads, but an increasing was so Submark Asia. Accordancial Systems Desiron (ASD) a Winghip Falterson AFE, Coll contacted for a study that would modificate the control of the College of

may, This feasibility study was to determine if Alson 136-A-7 turboprop engines could be recladed on C-119C/G/J aircraft. Delivery of a ying prototype was amicipated in 180 days at a cast of \$520.00.0. A reduction to \$350.000 and 120 days could be achieved if the Allison Quok-Ergine Change (QEC) kits were prosided by the government.

These companies teamed together for the ASD turboprop C-119 feasibility study.

Belox: When SAC had considered employing the C-119s for resculing alrorews from behind enemy lines, RATO was bested as a means of getting the alroration to distributy short fields. For this test, the aircraft was equipped with two banks of three RATO bottles per side. With this arrangement, the aircraft was fine and additional 1200 bit of threats. USAF 4050-0.1 USAF 4050-0.1



SECDO (Encino, CA)	Aeronautical engineering – structural and aerodynamic.
	ne was already in the USAF ne Lockheed C-130. If the exist-
ing Convair 54	turboprop QEC was utilized,
	a step in the lower contour of ernatively, a deeper, lower con-

Company

Skyways Inc.

(Sherman Oaks, CA)

On Mark Engineering Co.

Douglas A-26 Invader executive conversions. Developed and produced the Pregnant Guppy & conversions. Full FAA design. autical engineering ready in the USAF d C-130. If the exist-OEC was utilized

Expertise

tour could be developed to better accommo-

date the larger C-119 nacelle diameter. A new

semimonocogue transition plug would be fab-

ricated to move the C-119 firewall forward. An

aft fairing extension would be built to smooth

the airflow from the higher QEC nacelle to the

top of the C-119 nacelle. A new exhaust duct

C-119B

1098 33 in

86t 6in

Finalmeering & technical data

he lower contour of

C-119C

1098 35in

86t 6in

120

* For Basin Mission: † Overload Limited by Performance: ‡ Normal Limited by Performance: § Limited by Max Taxi Weight 1 The data given under the heading of powerplants in this column in this column are for the C-119L only and not the AC-119G

ing at the wing trailing edge to preclude damage to the landing gear. No changes would be required for the landing gear. Stainless steel doublers would be added to the wing to prevent heat damage from the exhaust duct. The higher exhaust duct necessitated raising the air inlet would be above the propeller bub. thereby minimizing foreign object damage. A pair of Aeroproducts Model A6441FM-294 hydro-mechanical propellers would complete the nower nackage. The OFC installation moved the C-119 propeller plane forward by about three feet The QEC installation would result in a reduc-

would be installed over the top of the wing, exit-

would have a higher fuel consumption. While no changes would be made to the prototype, it was recommended that additional fuel capacity be provided for any production aircraft. The study would include an analysis of the structural effects of additional fuel tanks. Installation of the 2.000-lb lighter T56 engine

would garner the following improvements: Markedly improved single-engine performance

C-110G

100k 95in

2 x or 4 x 506

363 Go

- Decreased take-off distances

C-119F

109t 3/6r

86t 6in

2.590

2 x 506

 Improved maintainability, reduced maintenance index Increased cargo capacity due to reduced engine

weight No records could be found that this proposal

went beyond the design phase.

CONCLUSION

AC-119G

100k 9/6

861 6in

2.488

- Improved speed performance

- Significantly improved reliability

Improved climb rate

The C-119s were eventually phased out of the USAF inventory and replaced by the Fairchild (formerly Chase-designed) C-123 Provider and the pre-eminently successful Lockheed C-130 Hercules. This marked the end of American

twin-boomed endloading aircraft The basic design of the C-119 Flying Boxrat offered a lot of growth potential. While it had more than its share of growing pains, it proved States and its allies for several decades in addition, it was capable of being modified for several unintended, at times rather unique missions. In these respects, it proved its investment value to the American taxpayer.

AC-1198

1000 2/45

SER Fin

Flying Boxcar Specifications Dimensions

Height	26ft 6in	26t 6in	26t 6in	26t 6in	26t 6in	26t 6in
Wing Area	1,447%	1,4471	1,4471	1,44715	1,44715	1,4471
Weights (figures in pounds)						
Empty	38,329	39,942	39,118	40,758	52,407	60,277
Basic	39.912	40.300	40,476	41,170	58,433	68,450
Design	64,000	64,000	64,000	64,000	64,000	64,000
Combat*	47.952	49.350	49,368	49,368	60,374	70,102
Max TOW†	68.700	73.150	77,700	72,700	69,100	77,000
Max TOW1		66.600	72,000	68,300	64,900	77,000
Max landing§	68,700	72,300	77,000	72,700	77,000	77,000
Powerplant					C-119L1	- 1
Engine	P&W R-4360-20	P8W R-4360-20WA or Wright R-3350-85	Wright R-3350-89A or Wright R-3350-85	Wright R-3350-85	Wright R-3350-85	Wright R-3350-85
Supercharger	1 Stage, Var. Speed	1 Stage, Var. Speed	2 Stage, 2 Speed	2 Stage, 2 Speed	2 Stage, 2 Speed	2 Stage, 2 Speed
Propeller						
full-feathering,	Hamilton Standard	Hamilton Standard	Hamilton Standard	Aeroproducts	Hamilton Standard	Aeroproducts Hydromatic or
constant-speed, reversible)	Hydromatic	Hydromatic	Hydromatic	Hydromatic	(three-bladed)	Hamilton Standard (three-blade)
Propeller Diameter	15t	158	158	158	15ft	15R
Fluids (figures in gallons)						- 1
Wings, Inboard (2 tanks)	1,710	1,710	1,666	1,666	1,598	1,598
Wings, Outboard (2 tanks)	914	914	924	924	890	890

Water/Alcohol

2.488

120

120

C-119 Flight Testing

a action to the standard flight tests permote by the mandacture, the USAF and a restrict the C-119 at Edwards AFB. At A-thea tests were conducted to verificate of the substant test of the conducted to verificate of the substant test of the conducted to verificate or test were performed on the first of a series of a C-119 built by both Fairchfall and Fair Series of the C-119 built by the Fairchfall and Fair Series of the C-119 built by the Fairchfall and Fair Series of the C-119 built by the Series of the C-119 as a part of ongoing decreased to consult the C-119 as a part of ongoing

Place IV Teals

In William (1997) Teals

In William (1997) Teals

In William (1997) Teals (1997) Teals

In William (1997)

ign: The Air Research & Development
Common (AIDC) used C-119F-FA, in 11-256
Common (AIDC) used C-119F-FA, in 11-15
Common (AIDC) used C-119F-FA, in 11-15
Common (AIDC)
Co

Bibwight ARDC operated C-119F-FA, s/n 51-1005, in this pristing overall natural metal finish. Abazertall door had been installed. The enpennage appears to have been painted Inimia Red, with natural metal cutouts for the tal number and tail markings. The inboard surfaces of the dorsal fins appear to have been sainted in either black or Insignia Blue. While IN U.S. AIR FORCE and TROOP CARRIER nations were carried on the forward fuselage. an AFDC insignia was applied to the forward bulge att of the drop windows. Relow and aft of that insignia is what looks like the Catch a falles Star Insignia (See Chapter 13), In addition, the red and black on white tall nations were applied. Edwards AFR Historian

Between 18 November 1952 and 1 May 1852 and 1 May 1854 and 1855 an

Tests on both 51-8089 and 51-8098 were conducted at weights ranging between 53,900 and 72,800 lb. The center of gravity positions ranged between 20 and 30% of the mean aerodynamic chord (MAC). The long-range ferry tanks had been removed for these tests.

The tests revealed that the flying and handling characteristics of the C-119F were normal and satisfactory with one exception – the single-

engine minimum control speed to assure directional control was undesirably biob at 112 knots indicated airspeed (IAS). The rudder force was excessive when compared to the light alleron and elevator forces. Cooling for the B-3350s was satisfactory at all airspeeds. With water-alcohol injection the available take-off brake horsepower was less than that in the manufacturer's estimates. Recause the measured maximum fuel capacity was less than the manufacturer's estimate, the combat radius of the aircraft was 13% less that predicted. Because the take-off speeds proved to be 35% lower than the manufacturer's estimates, the take-off distance and 50th obstacle clearance at 72,800 lb gross weight proved to be 37% less in actuality. The service ceiling at 72,800 lb gross weight was approximately 14% higher than estimated, and at 64 000 lh. The ceiling was 13% higher

The Phase IV tests also revealed a problem with the aerial delivery system. Vibrations experienced during taxi and in flight resulted in the





monorall system locking pins becoming disengaged. As a result, the trolleys were free to roll unless restrained by an adjacent trolley. On two occasions during the tests, a free-wheeling trolley would roll forward and contact the paratamer release resulting in the suspended ballast dropping onto the paratamer door causing daman. A more mostitive locking system

was recommended.

Other Phase IV Test findings included:

The elevator trim wheel was easily turned and was so located that the pilot's knee could inadvertently turn the wheel. An adjustable friction lock was recommended.

The nosewheel steering was not positive. System modification to assure positive steering at all gross weights was recommended. The flight control lock was unsatisfactory, in that when released, the controls could remain locked. It was recommended that the lock be spring-loaded to the unlock position. (This condition had resulted in several emergency landings in operational units)

It was recommended that the rudder control force be decreased and directional control be improved so as to permit single-engine operation below 112 knots IAS.

Problems experienced with engine maintenance on the R-350s was initially attributed to a tack of experience level of the mechanic supporting the Phase IV tests; however, a USAF investigation into engine service life and maintenance was recommended.

maintenance was recommended.

Partial Phase IV figit tests were performed.

Edwards AFB, on C-1963-174, an 5 1 6056.

Edwards AFB, on C-1963-174, an 5 1 6056.

It Li John R Walls was the Test Engineer. These tests included that the climb performance drise.

C-1960 was superior to that of the C-1166, lost that the engine cooling was less that the engine cooling was less than the contribution of the C-1166 to though a satisfactory. Three tests were conducted in 16 fights to satisfactory. These tests were conducted in 16 fights to satisfactory. These tests were considered to the C-1166 to satisfactory. These tests were considered in 16 fights to satisfactory. These tests were considered in 16 fights to satisfactory. These tests were considered in 16 fights to satisfactory. These tests were considered in 16 fights to satisfactory. The condition of the 16 fights are considered in 16 fights to satisfactory. The condition of 16 fights are considered in 16 fights that the condition of 16 fights are considered in 16 fights that the condition of 16 fights are considered in 16 fights and 16 fights are considered in 16 fights that the condition of 16 fights are considered in 16 fights are considered

weights between 53,000 and 74,000 b were used during these tests. The major difference between the C-119F and the C-119G was the propellers. The Hamilton Standard propelles had been replaced by Aeroproducts pros-While the single-engine directional control had improved over the C-119F, it was still unsafe factory below 107 knots IAS. The aircraft was grounded between 21 September and 1 November 1953 by a general grounding order resulting from propeller malfunctions. Subsequant modifications to the propeller controlss. tem were accomplished to change the low plot blade angle stop and to block out the reversi pitch capability. Propeller synchronization wa accomplished manually by the pilot because the prop governor was unable to maintain selected rom settings. The resulting noise but



Above: This Kalser-built C-119F, s/n 51-8117, had flown with the 314th TCW before going to Edwards AFB for the 1955 heavy weight tests. Edwards AFB Historian

Below: C-119J 51-8050, was equipped with the flight operable beavertail doors. Insignia Red Arctic trim was applied to the airplane. This picture dates from 11 September 1958. Edwards AFB Historian





Dummy bombs were suspended from the paratainer system and secured with 2x6s and web straps for the heavy weight testing conducted on 51-8117. The picture dates from 23 November 1955. USAF via D C Leisy



This shark fin was mounted aft of the cowl flaps as a simple piece of flight instrumentation gear. The crew would observe the position of the cowl fie relative to the shark fin to work their drag polar tests. USAF via DC Liety SCOLIDECT.

Fairchild's jet-assisted demonstrator, YC-119K in SS-3142, was marked in a bold red, white, and blue scheme that produced the US Secretorial celebration by several years. The jointer was taken at Dutles International Airport on 18 August 1969, Frank McSorley via MSC DI Wilmost.

In 1951, tow tests were performed by Fairchild utilizing a C-119 and a Chase YC-122 glider. The C-119 was carrying the ARDC logo. P M Bowers

produced extreme crew discomfort. It was recommended that the propelers be reworked as soon as possible so that the revening capability could be used. It was further recommended that the propeler regulator be redesigned to eliminate rpm fluctuations, and a better method of prop synchronization be developed.

C-119H Testing

cer John W. Kornati was assigned as the SUBF Project Pilot Fibe 4:194 in Ju. June 1952. In sas assisted by Bill F Owens, the Project Pilot Pilot Fibe 4:195 in June 1952. In succession of the Pilot Pilot Pilot Pilot Pilot Pilot oil a localization all empty delay as the manluture wiched out an unexpected problem and the pilot Pilot Pilot Pilot Pilot Pilot Pilot Substanced by the deviator spring table Substanced by the deviator spring table such was accepted for fight. Between the next has accepted for fight. Between the next has accepted for fight. Between 46 August, 34 Rights were conducted, totalrisk Hours and 30 minutes.

Research and Development The 6511th Parachuse Development Test Group.

Elberds AFB, performed a variety of testis any form less jumps form les jumps to cargo droops between lawary and 30 June 1953. During these tests had less than 1953 and 1954 and 1954

licker as used during the Korean War.

Heavy Weight Tests

as \$4117, between 18 November 1955 and January 1968. We june p Seigier was the Paper liver, and 1LI David C Liaby was the Paper liver, and 1LI David C Liaby was the Progress. The test was designed to determine the maximum gross weight at which a rate side of 1000 per minute could be obtained as grape engine military power (with water side of 1000 per entired could be obtained as grape engine military power (with water side of 1000 per ended only the power (with water side of 1000 per end flags retracted only the grape and flags retracted only the power (with water side of 1000 per end flags retracted only the power (with water side particular was provided indicators, sensitive attitudes, was asked to the notification of the problem of the notification of the power of the notification of the problem of the notification of the problem of the notification of the problem of the notification of the notification of the problem of the notification of the problem of the notification of the problem of the notification o

ado console. Readings from these gauges

Hope weight tests were conducted on C-119G.





were taken by L1 Leisy, seated in the radio operator's seat, and an ensisted technician in the naxigator's seat. In accition, a shark fin was installed behind the cowl flaps so that the cowfi flap opening could be visually determined from the cockpit. Precise cowfit flap openings were required for both engine cooling and airspeed californion.

The property of the control of the c

The remaining tests were flown at Edwards AFB. These heavy weight tests were conducted using similar conditions to those utilized in the inimited Phase of tests for the C-119G. The exceptions were that R-335-89 engines were exceptions were that R-335-89 engines were used in lieu of the R-335-98 engines, and dual, used in lieu of the R-335-98 engines, and dual, instead of single nose gear wheels were to 20 dummy bombs, weighing a total of 10 (1835), suspended from the aerial delivery system while an additional 5,875-bit of lead weights were secured to the cancel and the weights were secured to the cancel and weights were secured to the cancel to the control of the cancel weights were secured to the cancel to the control of the cancel to the canc

During the 15th test, conducted on 8 December 1955, the aircraft was being flown at 69,500 lb gross weight at a 2,700th altitude with the cargo doors installed. A series of sawtooth

climbs were being attempted at an altitude of 2.500ft. The right engine failed at the point in time that the left engine was being feathered. A cylinder head temperature of 60°C was being indicated on the left engine. The right engine was feathered and normal rated nower was applied to the left engine. During this emergency, a loss of 400ft in altitude was incurred as the aircraft was diverted on a 20-mile leg to Los Angeles International Airport without a further loss in altitude. The entire flight lasted 40 minutes. After replacement of the right engine, an engine calibration run on 14 December revealed that insufficient nower was being developed in order to continue the tests. A second replacement engine was installed and test-

Testing continued on 5 January 1966, when a 25-minute engine calibration fight was conducted. On the following day, testing was conducted. On the following day, testing was halled after 40 minutes due to at Intubations. A full 220-hour flight was conducted on 7 January. The clamshell doors were renowed, and testing continued later in the day. The flight was candidated after 20 minutes because of stabulence. These tests were resumed and two on the following day.

The clamshell and cours were reinstalled for test.

The clamshell doors were reinstalled for test.

in a claimante acoors were reinstated for testing on 9 January. After 25 minutes the flight was
reminated due to roughness in the right engine
as a result of the tests it was determined that
the C-119G could not sustain the single engine
gross weights as published in the gyrent fight.













manuals. At sea level, the maximum weights that would permit a 100ft per minute rate of climb with the gear and flaps up at 3,500bhp were: 72 600 lb with the cargo doors on and 69 700 lb with the doors removed.

Tandem Gear Tests

As with most transport aircraft, the C-119 was restricted to operating from prepared airfields. To permit soft-field operations, Fairchild began experimenting with a tandem main landing gear system that would increase the aircraft's fnotorint. These tests were conducted in 1951.

The new twin axle truck was installed on the main gear. Each axle had a pair of wheels with tires of a smaller diameter that those on the standard C-119. The gear doors were modified with cutouts that permitted the wheels to partially extend into the slipstream. The tandem gear installation never went into production.

FC-119C-19-FA, s/n 50-135, was modified for the tandem landing gear tests. Note the salion inspecting the gose, and the googs under the at fuselane. A camera pod is mounted under the aff fuselage. In the background was a T-6 Texan and an L-19 Bird Dog. Fairchild via George Culy

for the C-119. These illustrations show the aft boole being employed on normal runways and the front wheel assembly for rough runways. gear features, and design criteria.

Large Capacity Spray System Tests A report dated August 1953 from the Air Form Armament Center, Folin AFB, FL described at evaluation for a production model of a large capacity spray system for both the B-29 and C-119. Only the C-119 aspects of the tests are covered herein. The test program was initiated on 15 December 1952, with program support

- Special Weapons Branch, Armament Laboratories, Wright Air Development Center Wright-Patterson AFB. OH - Biological Laboratories, Research and
 - Engineering Command, US Army Chemical Corns Camp Detrick MD

The tests were designed to evaluate the handling, installation, and performance characteristics of a production model of the large canacity bomb hay spray tank designed by carrying and dispensing anticrop chemicals The agent was a mixture of three parts Agent A undiluted technical grade butyl 2,4-dichloro phenovyacetate and one part Agent B 24 5-trichlorophenoxyacetate. Consideration exgiven to the effects of various wind and ten perature conditions on the snray nattern

Hayes Aircraft Corporation, Birmingham & designed the 1.000-gallon capacity aluminate tank, self-priming centrifugal pump, and selfnecting plumbing for installation in the cars compartment of a C-119 to specifications on vided by the Army Chemical Corps and the Force Research and Development Committee A small gasoline-powered engine drow to centrifugal pump. Controls installed on either end of the tank facilitated system operator Four detachable castering wheels permits the unit to be towed and maneuvered into hi aircraft. The system was designated MC-1.

The C-119 cargo compartment was modifito accept the tank cradle, and a hole was cutiff. the bottom of the fuselage to permit operators the dump valve. Another 2in diameter hole at cut into the right clamshell door to permit to nozzle assembly to extend outside of the airor Lastly, an exhaust port was cut into the side. the fuselage for the gasoline-driven engine.

Hayes Aircraft also modified a Model III Heating and Transfer Unit from an E3R2 lost diary Oil Mixing and Transfer Unit for use will the MC-1 system. The unit was designed transfer a viscous fluid from drums, tanks other containers through a heating change scanned

A pair of 18mm GSAP cameras, equipped with 8mm food ingrit lenses were installed on the aircraft. One seal accorded in the tail position to the aircraft. One seal accorded in the tail position to record the spray pattern. The second case to record the spray pattern. The second case to the spray pattern as liquid departed the nozzles. Switches the spray pattern as liquid departed the nozzles. Switches to sprawing the commercial service of the spray pattern as liquid departed the nozzles. Switches to sprawing the commercial service of the spray tank.

Author 18th 18th 12 crew of 18th remo paragraphs.

36 manhours to install the single tank and its ancillary equipment in the C-119.

Even successful spray tests were flown using the B-29, while another three were flown with the C-119. The aircraft were flown at attitudes of 1,000ft, 1,500ft, and 2,000ft. After analization that data, the test force recommended:

Replacing the gasoline driven engine with an electric pump because of exhaust furnes, draily maintenance requirements, and pressuresurging of the discharge lines. Continued contact between the agent and tank.

suiton barriet resulted in destrictation of the progression state on the blanker, state, on the suiting qualifies of the blanker were satisfactory, the caten of the proprint protein of the C-159 until doors resulted in excessive deposits of aspet on the aircraft skin. While extending the scale boom 12n at of the trackings markedly scale the progression. A stratistical proprint service of the proprint of the proprint of progression of the proprint of the scale boom 12n at of the trackings markedly services the condition. A retractable spray roczel control services of the proprint of scale of scale

I feet showed that the Heating and Trender Unit was not completely satisfactory for loading and heating the agent. Sidesquently the Air Force procured 100 MC-1 spites and placed them in storage along with the dottlant agent in Spokane, Washington. Washington.

performed defoliation operations in Southeast

Assusing a variety of chemicals, including By way of note, a fleet of six UC-123Bs was ergloyed in Southeast Asia on 28 November 181 Projections for future requirements indigrad a need for a 40% increase in defoliation poblity. While the USAF could not dedicate Edither aircraft to this mission, consideration we oven to transferring the mission to the Rouble of Vietnam Air Force (VNAF) using sone of their C-119s. Operation Ranch Hand shady required the UC-123s to be painted in AW markings and carry a Vietnamese crew tender aboard for each mission. USAF staff amount in the theater determined that the the way this mission could be completely testered to the VNAF would be if the aircrews and overcome their fear of ground fire at the or althudes required to fly the mission profile. ISSF requirements at the time would have tion eight C-119s and 21 experienced air-

the out of the already strained VNAF airsit

AC-119 Tests

The Limited Performance and Stability and Control tests were completed on the AC-119G on 23 January 1989. The aircraft was de-instrumented and returned to Fairchifd at SI Augustine, FL, on 29 January. The AC-119K arrived at Edwards AFB for tests on 19 June 1989, for similar testing.

Tactical Air Command's Special Operations Forces conducted other tests at Eglin AFB, FL These included tests of the night observation system (NOS) fire control system, illumination systems, flare launcher, cabin smoke removal system, and overall aircraft performance. A total of 25 test missions was flown between 9 and 30 June 1968. Recommendations for a 200ft per minute rate of climb on one engine could not be met. The C-119 still could only muster a 100th per minute rate of climb. A weight reduction program was instituted. One development that resulted from the program was a pilot-operated flare launcher that weighted 1,000 lb with the flares. In an emergency, the launcher could be lettisoned to reduce weight during a critical phase of flight. As a result, the AC-119G was capable of achieving a 150ft per minute rate of climb

AIR FORCE RESERVE FLIGHT TIISTS

It should be noted that the Air Force Reserve Component ranks are filled with members who had prior Regular Air Force experience and long tenure with them on a single aircraft. Such background made them well-qualified to perform lateprogram testing. Two examples are the Alamo Slingshot and the Free-Fall Delivery system.

Alamo Slingshot Members of the 433rd TCW stationed at Kelly

AFB, Tx devised a system that would marked/s improve aentsi delivery operations. Nat George H Slover, a TAC artistor to the 433rd, was responsible for the concept and development appointed for the concept and development identified as TAC Test 67-50, While the crews were able to determine the Computed Air Release Porti (CARP), the each string of systemcitals performance was proving broblesome challe produced was proving broblesome challenge to the computed air and the consistence of the computed air and the consistence of the computed air and the contraction chute and a main cargo chale. —an extraction chute and a main cargo chale.

With the guidance of May Slover, members of the ASPAT CTW Overload a new delivery system known as the Alarmo Slingshot based on a child with the ASPAT CTW Overload a new delivery system known as the Alarmo Slingshot based on a child was side and nubber pand slingshot. All the ASPAT CTW of the A

and propol the lead out of the leads of the excellent. The web straps section (the cargo was released a spit second before the siting launched to lead a spit second before the siting launched to the promoted system of the lead of the

Free-Fall Delivery Tests The introduction of the C-119 into the war in

Southeast Asia, and the probability of a requirement for free-fall delivery of supplies led the 434th Troop Carrier Wing (TCW), AFRes, Bakalar AFB, IN, to suggest testing of a free-fall system for the C-119. TAC Test 68-208, Free-Fall Delivery, C-119

Aircraft, was conducted by members of the 43-6th TCW between September and December 1968. The tests were conducted to develop aircrew procedures, ballstics data, and determine the drop zone size for use with free-fall deliveries from C-199 aircraft. Maj Paul A Dehmer Jr, was the test manager. The ballstics data published in TAC Test 67-

So for the C-130 was found to be inapplicable to the C-119. The horizontal distance and time of fall from a C-119 were consistently shorter than that for the C-130. Because there was no apparent reason for this disparity, TAC Test 68-208 included the C-130.

The three phases of the free-fall drop tests.

The three phases of the free-fall drop tes were:

Phase I 36 C-119 drops conducted at Bakalar AFB, IN in September 1968. Phase II 3 C-130 drops at NAF El Centro, CA

DOD test range with theodolite capability.

Phase III 12 C-119 drops on the Fort Bragg
Reservation on 10 December 1968.

The average ext time for a single 1,800-b, A.22 container was 1.5 seconds. The maximum deya-ton was 8,000 also second. The test reveled that the existing 60 x 300-year drop zone (ID2) for simple locatis be increased to 00 x 250 years for the C-119. The point of impact should be located 152 yards for the C-19. The point of impact should be located 152 youts from the leading alog of the ID2. The additional ID2 length required for each succeeding container in a stick should be increased from 25 to 50 yards. The tests proved the C-150 data to be correct, and provided different data for the C-119.

CONCLUSIONS

While the Regular Air Force performed the requisite syllabus of acceptance flight tests, the Air Force Reserve proved itself to be equally capable in developing and performing follow-on tests that further enhanced the capabilities not only of the C-119, but of othersemptime discrete.

Air Resupply Drop Procedures

The concept of supplying military units through airdrops was pioneered during World War One. and developed into a consistently reliable alternative during World War Two in virtually all theaters of the war. However, it was not until the Korean War, with its peculiar logistical problems, that we would experience the greatest airdrop resupply operation in history.

Air Drop Resupply Requirements The need for an airdrop resupply system emerged during the Korean War because of noor communications, both road networks and rail facilities. Of even greater significance was the lack of adequate surface routes between

forward airfields and the actual front lines. Poor weather enemy interdiction and the rugged Korean terrain all had their impact on the rapid forward movement of ammunition; patroleum oil and lubricants (POL): and rations Enemy action and winter conditions often rendered the available roads impassable.

The enemy was clever enough to stay away to fight in difficult off-road terrain. They would encircle US troops and deny them a way out without airlift.

Techniques developed within the Zone of Interior prior to the Korean War, utilizing C-82 Packets and then C-119 Flying Boxcars. proved that airdrops could replace the did Anything that could be carried in a glider to be parachuted. Air dropping could be accornlished with less vulnerability to hostle from loss of lives and equipment.

Air Drop Preparations

Working in concert the 314th Troop Care Group at Smyrna AFB. TN and the 298 Quartermaster Airborne Supply and Package Company, which was attached to the 187hA horne Regimental Combat Team (RCT) de oned the techniques for packaging loads and dropping supplies.

Special parcels were built up on 4t x4ta wood nallete. These nallets would then trucked to the flight line and loaded onto the craft. A floor-mounted roller system what aircraft facilitated both loading and droom the pallets. Steel cables and nylon web the with hooks were used to secure the palet. the tie-down rings in the aircraft fox 1 clamshell doors were removed from the agfor these operations. However, with the co removed the aircraft's range was seen hampered and crew conditions, particular winter, were marginal at best.

Air Drop Techniques

At a point 20 minutes from the drop zone ers would remove the steel cables and a the load to be secured solely by the mine strans. When the aircraft reached be a zone, the pilot would signal the kickers fro. an alarm bell system. At this time, theko who stood forward of the cargo, would as a newly developed bomb shackle we device that permitted the entire cass is: depart the aircraft in approximately 351 onds. Parachutes would extract each ba The plywood pallets would break away the bundles as they hit the slipstream # few Korean drop zones permitted and greater than single ships in trail, a 9-55 mation could drop almost 50 tons of as 3.5 minutes



Above left: This formation of C-119s from Hamilton AFR. CA are preparing for a drult the absence of clamshell doors on fourdis aircraft, while the ton rear C-119 has been doors installed. A paratrooper is surveits situation from the rear of aircraft six \$330 let A nalistized less and trailer have left

The C-119s could drop their entire load in a single pass and execute a rapid climb-out brough mountain passes, thereby reducing winerability to ground fire: while C-46s and C47s, with their side cargo doors, would have to make several passes to drop an entire load. In order to accomplish the airdrops, the C-119s had to be slowed to 115 knots indicated airspeed (IAS) because the existing cargo parachutes would not withstand the opening shock at higher speeds. A damaged chude could cause the bundle to fall at a faster rate. theraby increasing the risk of damage. In addition, higher drop speeds would scatter the bundes over a greater area. At 115 knots IAS, tho aircraft was fiving just a few knots above staling speed, yet it was passing the drop zone C-119 from its cruising speed of 160 knots to its gop speed took approximately 90 seconds. during which time it traveled approximately

The cotimum drop altitude was determined to be between 600 and 800th above ground level. At lower altitudes the parachutes would not have had adequate time to open. During the Korean War this drop altitude was often achieved far below the surrounding rugged

mountain peaks. Selection of a drop zone (DZ) by troops on he ground was critical to the success of the mission. To ensure that most of the cargo be at least 500 yards in length. When 30 or more aircraft approached the same DZ, the it to damage from subsequent drops. Therefore, it was recommended that staggered DZs be established

A DZ was identified by a T laid out on the ground. The stem of the T was placed in line with the hearling of the incoming aircraft. Its crossbar was placed perpendicular to the stem at the end away from the approach. The T was made up of eight 3ft x 15ft pieces of brightly colored fabric. Airborne units placed the T at the beginning of the DZ while non-airborne units

placed the T at the center. Consideration was given to the size, shape, and terrain of the DZ: exits from the DZ; and proximity to the unit requesting the drop. To preclude drops to the wrong units, a code letter was applied in addition to the T. To prevent a last minute scramble in laying out the DZ, this task was to be necformed at least 30 minutes prior to the scheduled arrival of the aircraft that could be early



why the C-119 had such an upsweep to the tallbooms.

Below: An explosive charge separated the pallet harness from the parachute lines to prevent the wind from catching the chutes and dragging the equipment across the ground.



An average 5-ton load could have required as many as 104 G-9 18ft diameter and 50 G-1 24ft diameter parachutes. When so many parasnace a saturation condition occurs. As the chutes steal the air from each other, the bundles oscillate violently. When this happened. the shroud lines would become entangled between chutes resulting in streamers, thus allowing the bundles to free-fall. With adequate advanced notice on the DZ, packers could load a double-section thereby permitting the kicker to drop the first half on signal, count to two, and release the second half of the load. This staggering of the drop greatly reduced losses due to streamering. A double-section load provided

a 120-yard separation in the drop. Parachute Maintenance and Rigging

During World War Two, parachutes were sewn from silk - hence the term 'hitting the silk'. Later, parachutes are made of nylon or rayon depending upon their use. Their 1950 cost to the government ranged between \$5 and \$2,000 each. Lives of the paratroops and the integrity of their supplies depended upon the proper care and maintenance of the parachutes. During the Korean War, the Army Quartermaster Corps was responsible for the maintenance and rigging of all parachutes employed in airdrops. Initially this mission was assigned to the 2348th Detachment. This unit was subsequently redesignated the 8081st Quartermaster Airborne Supply and Packaging Company, Members of the 8081st were responsible for

- Detailed inspections of the parachutes and
- Drying and dehumidifying the canopies Making requisite repairs
- Storage of serviceable parachutes and equipment
- Pallet and paratainer build-up . Aircraft Inaction
- · Flying as kickers on drop missions

Shops for the 8081st had over 100 sewing machines canable of performing a wide variety of different stitches. Special tables were employed for inspections and packing of the parachutes. Serviceable parachutes and equipment were stored in a painstaking, but necessary, manner. Four layers of waterproof material protected the equipment from mold and mildew. The chutes were then packed in crates stored in a warehouse with dehumidi-

Members of the 8081st were responsible for ensuring that the correct load was placed aboard each aircraft so that it could be dropped to the proper DZ. They ensured proper parachute attachment to each cargo load. These personnel worked throughout the night to ensure that the aircraft were properly loaded and ready for the flight crews in the morning. Personnel from the 8081st were innovators

- systems for unusual and outsized cargo. Such
 - Color-coded parachutes for specific types of carpo . Floor-level roller conveyor system for installation in the C-119 cargo compartments
- Bomb-shackle release systems to ensure rapid, uniform doons
- 55 callon drum delivery capability
- Physood platforms with francible materials to reduce impact damage

US Army Quartermaster School

The dropping of paratroops and their equipment to establish an airhead was developed and fully exploited during World War Two. Sus-

tained around operations by the airborne forces were bolstered by aerial resupply. It was not until the Korean War that America had a heavy drop capability. Early training was conducted using C-82s, followed by C-119s. It was the members of the 8081st that wrote the book in heavy drop operations. Between 1946 and 1953, a series of joint

Army-Air Force field exercises and maneuvers tested the equipment and procedures that led The table below identifies the most signifi-

cant joint Army-Air Force airdrop exercises conducted between 1946 and 1952.

The US Army Quartermaster School at Fitt Lee VA instituted a quartermaster airborn course of instruction that opened in 1950 and continued through until the end of the Kossa

The purpose of the course was:

Training in inspection, packing, repairing, and maintenance of personnel and cargo narachites and aerial supply equipment loading and securing cargo in aircraft, election of cargo in flight, and recovery of parachutes and aerial supply equipment.

Prior to 1950 there had never been any instrution given in the maintenance, packing and rigging of 100ft diameter cargo parachutes. May 1951, the school curriculum included a 12 week 528 hour parachute rigging att aerial delivery course. The 140-hour aerial supply portion of the course included these

Subject Hous 28 Heavy Carpo Parachute Packing Heavy Equipment Drop Techniques.

late	Exercise	Location	Aircraft	Units
oct 1946-Apr 1947	Task Force Frigid	Ladd Field, AK	C-82	
lov 1947- Feb 1948	Snowdrop	Pine Camp, NY		
lov 1947-Jan 1948	Yukon	Fairbanks, AK	C-82	62nd TCG
eb-Mar 1950	Portex	Viegues Island, PR		
pr-May 1950	Swarmer	Camp Mackall, Fort Bragg, NC	C-119	314th TCW
ul-Aug 1951	Southern Pine	Fort Bragg, NC	C-119	375th & 443rd TCW
lec 1951-Feb 1952	Snowfall	Camp Drum, NY	C-119	435th & 436th TCW
far-Apr 1952	Long Hom	Fort Hood, TX	C-119	8 wings

Rioper's Pledge

I will keep constantly in mind that until men grow wings their parachutes must be dependable. I will pack every parachute as though I am to jump with it myself, and will stand ready to jump

I will remember always that the other man's life is as clear to him as mine is to me. I will never resort to guesswork, as I know that chance is a fool's gold and

I will never pass over any defect, nor neplect any repair, no matter how small, as I know that omissions and mistakes in the rigging of a parachute may cost a life. I will keep all parachute equipment entrusted to my care in the best possible condition, remembering always that little things left undone cause major troubles.

I will never sign my name to a parachute inspection or packing pertificate unless I have persi performed or directly supervised every step, and am entirely satisfied with all the work.

I will never let the idea that a piece of work is 'good enough' make me a potential murderer through

I will keen always a wholehearted respect for my vocation, regarding it as a high profession rather than a day-to-day task, and will keep in mind constantly my grave responsibility.

I will be sure - always

Boxcars in Korea

Alter VJ-Day things remained relatively tranquil in the Pacific, at least as far as the United Sales was concerned, although the French were involved in combat operations in French Inforbina On Sunday 25 June 1950 the veather along the 38th Parallel dividing North from South Korea was overcast and rainy. At 0400 hours the Red North Korean Army auched a sudden all-out attack against the Republic of Korea. While the Republic of Korea. BOK) had feared appression from the North and had built a series of field fortifications sions the 39th Parallel, their lightly armed poors were no match for the advancing Communist troops. By 0600 hours, columns of North Korean infantry, supported by Sovietbuilt T-34 tanks, advanced toward Kaesong in the west and Chunchon in central Korea. Along the east coast, south of Kangnung, a dsheveled, but effective force of junks and shore The Communist forces had comsistely overrun the BOK forces. The US Korean Witary Advisory Group (KMAG) working with ROK forces had seen similar incursions by Communist troops at isolated sites in the nastberefore this advance was not immediately reported. By 0900 hours. KMAG was in a posiion to better assess the situation and determine that the Communist forces were bent on armed subjugation of the Republic of Korea 8x0945 hours, the word was given to the commander of District 8 of the Office of Special investigation who in turn relayed the message to the Far East Air Forces (FEAF). This message was immediately relayed to all FEAF bases, it was not until 1130 hours, when Gen Eat E Partridge, FEAF commander, arrived in his office in Nagoya, did he learn of the develcoments. Instantly he understood the gravity of the situation, but was limited in his actions. inolar as Korea was concerned. FEAF was tasked solely with the minor mission of providing for the safety of American nationals, and only then at the request of the American

AFIN Air Force operation plan for such conproces had been issued on 1 March 1950. and Partridge issued orders to stage airst for the 374th Troop Carrier Wing (10) at Tachikawa near Tokyo to Itazuke suce it was closer to Korea. He further see 1 was closer to Korea. He further see 1 was closer to Korea. He further see 1 was considered to do so, at olders had to originate from Gen Douglas cluttur. The 374th TOW was the only airlift.



had been looked into a C-119 Frjing Boxzer of the US Far East Air Forces, 1910 Air Division (Combi-Compl), in Japan. Force web would make the actual divisives, we, left to right Cap Richard E Kins, Stipl James Castain, Sqi Everet Leonard, and til Kandall Wood. The photograph dates from Kins, Stipl James Castain, Sqi Everet Leonard, and til Kandall Wood. The photograph dates from long plants to you'll have the complex of the complex of the complex of the complex of the panels. Sqi Leonard wore of Right soil as did it Wood. The man to the authern right wears a forcedured Right Jacobs over his Right visit. Soil Capit Kan was the Wood worn their Aide Was III.

wing assigned to the Fifth Air Force at that time. By early September 1950, it was attached to the 1st Troop Carrier Task Force (Provisional), renamed FEAF Combat Cargo Command (Provisional) on 10 September. The wing operated a variety of aircraft. Three troop carrier wings and two troop carrier groups, operating C-46, C-47, C-54, C-119 and C-124 aircraft, were assigned to the theater.

As the war broke out in Korea, the 21st Troop, Carrier Squadron (TCS), operating C-54 Silymasters from Clark AFB in the Philippines, was directed to fly all offs surcent to Tachikawa AB, Japan where the planes, aircrews, and maintanance personnel were transferred to other squadrons within the 374th TCW. Then the 21st TCS gained at 11 C-47s that were available TCS gained at 11 C-47s that were available and the state of the state of the state of the James 1950. Alternate for the state of the drawn from citotic way had been flying delais in drawn from citotic way had been flying delais in the state of the state of the state of the drawn from citotic way had been flying delais in the state of the state of the drawn from citotic way had been flying delais in the state of the drawn from citotic way had been flying delais in the state of the drawn from citotic way had been flying delais in the state of the drawn from citotic way had been flying delais in the state of the drawn from citotic way had been flying delais in the state of the drawn from citotic way had been flying delais in the state of the drawn from citotic way had been flying delais in the state of the drawn from citotic way had been flying delais in the state of the drawn from citotic state of the state of drawn from citotic state of drawn from citoti a mystad of administrative jobs. The 21st TGS immediately began sasting in the examination of civilians from Korea, earning them the name Kyutulo Kypiseis. Them fest mission up the the name Kyutulo Kypiseis. Them fest mission was evaluated civilian personnel and families from 105 offices in Secul. They were unique. They were unique in the they operated their C-47s not only for routine missions, but on airriand and airwine flarind. While there in the control of the co

South Korean President Syngman Rineo overestimated the ROK Army's capabilities when he only asked the American ambassador to request that ten F-51 Mustangs equipped with rockets be turned over to the ROK Air Force no later than the following morning. He also requested heavier artillery pleces. Shortly threeafter the United States, and only refurning threeafter the United States, and only the United threeafter the United States, and only the United States.



Nations became involved in the Korean Police Action. When the need for US ground forces became a necessity, so did the requirement for additional airlift. Maj Gen (later Lt Gen) William H Tunner, former Air Transport Command Hump and Berlin Airlift commander, was assigned to FEAF as Deputy Commander Military Air Transport Service (MATS) where he would temporarily serve to organize a major air-

lift in Korea The C-119 was an untried airplane at the time and while it had great potential. Mai Gen Tunner was a bit apprehensive about the fact that he would have a large number of them assigned to his units when all of the bugs had not been worked out of the airplane. Gen Tunner called George Hatcher, a former ATC colonel from World War Two who was now an engineer with Fairchild. Hatcher was made an

offer to return to active duty in the grade of colonel and serve as Tunner's engineering officer. The offer was accepted and Gen Tunner immediately had orders cut.

Deployment Plans

Plans for denloving C-119 Flying Boxcars to Korea were quite tedious and presented a numher of challenges for ferrying a heavy, twinengined transport from the ZI to Japan.

C-119C-15-FA, s/n 49-164, from the 50th TCS. 314th TCG, undergoing maintenance in an engine dock, O J Baird

It was originally intended to equip the first 20 C-119Bs with bladder tanks having a 2.798-psl Ion fuel canacity. A scheduled vacation at the US Rubber Company precluded their availability Gen K R Wolfe, from Air Materiel Command reversed the plan on 12 July 1950. Rather than stop the production line, the planned self-seal ing tanks were installed. Fairchild calculated that with the self-sealing tanks and a 1.005-gal-Ion auxiliary tank, the aircraft would have a range of approximately 3,000 statute miles. However, performance figures developed by the 314th TCW showed the range to be 2.68 statute miles. Previous experience with Fairchild led the Air Force to use the 314th

TCW's calculations. The 314th TCW evaluated the fuel burn or five C-119Rs under various conditions the results are shown in the table below.

The averages resulting from these tests wer Average maximum range (no reserve remaining)

 Average fuel per hour cruise (not including tale) off and climb) - 241 gallons/hour Average airspeed (true) - 192mph

Manifold Pressure - 38in with rom adjustmental 2 hour intervals - 1.850/1.750/1.650/1.550rpm - Average gross take-off weight - 66,000 lb

Carburgery tryuble increased talk

Aircraft	Gross Wt	Altitude	Range	Fuel/hr	Fuel Remaining	Fit Time	Remarks
49-111	66,000 lb	5.000h	1,500 st mi	1,400 lb	4,800 lb	8.25	
49.109	65,800 lb	6,0000	1,500 st mi	1,520 lb	5,400 lb	7:45	

3,600 lb	
Unknown	

This left side view of the nose of aircraft 48-144 reveals its blue/white quartered nose markings, indicating that the ship is from the 62nd TCS. 314th TCG. The ship also boldly displayed its name REAM SUPREME and the divine digit'. Because the USAF was undergoing a transition from its former Army roots, there was no such thing as uniform - here the crew are wearing the World War Two officers' 'pinks and greens' covered by a raincoat and a field cap; next is the new USAF blue uniform and wheel cap with requisite 50 mission crush, brown leather flying jacket, and capeskin flying gloves; and lastly, a standard issue set of Army olive drab uniform with like lacket. Army field cap, and a green nylon flying jacket with a fur collar. O J Baird



The right side of the pose of ship 49-144 carries this girl and the name TUCSAN CHEE-CHEE. The name in fractured Japanese means much as lot of, breasts. Note yellow chop marks surrounding the nose art. Their scarves were from the squadron color. Here the pilot is wearing a fight suit that actually is a set of mechanic's coveralls. He is carrying a side in a shoulder holster, and an Army-issue wheel cap with a 50-mission crush, O J Baird

Main Fuel Tank (self-sealing tanks)	2,62
Audiany Fuel Tank (3 @ 335 gallons)	1,00
Total	3,62
Tidal Fuel (3,629 gallons (2 6 lb/gal)	21,77
Less Trapped Fuel (218 gallons)	-21
Gallons available	21,55

The following two routes were planned (all distances in statute miles):

Northern Route	
Farfeld-Sulsun AFB, CA to McChord AFB, WA	610
McChard AFB, WA to Elmendorf AFB, AK	1,425
Binendorf AFB, AK to Sherriya AFB, AK	1,630
Shemys AFB to Missava AB, Japan	1,738
Misawa AB, Japan to Tokyo	366
Total	5,768
Southern Route	
Fairfeld-Sulsun AFB, CA to Hickam AFB, HI	2,400
Holam AFB, HI to Wake AFB	2,32
Wale AFB to Iwo Jima AB	1,660

Rode Differences

Va Hickam AFB, HI to J Va Shenya AFB to Jap Ofference	7,136 5,769 1,367	
Largest Leg	Distance	Reserve (no wind)
VaHolan AFB, HI	2,400	288
VaShenva AFB, AK	1,738	950

7 195

It was concluded that the northern route via Stemya AFB, AK, offered the greatest safety by poxing a much greater fuel reserve and emergency landing fields along most of the sale.

Boxer Mobilization The Stath TCG hased at Sewart AFR near

Smms. TN, was equipped with C-119s and woulstly supported the 187th Airborne Regirental Combat Team (RCT), based at Camp Campbell KY Roth of these units were existed to Korea. The 314th TCG was to be solable to FEAF by 15 August 1950 with 64 C119s Under the command of Colonel Hoyt Pinde, the personnel and equipment of the 11th TCG flew across the Pacific arriving at Tathkawa Air Base. They immediately redeplayed to Ashiya Air Base in southern Japan. Maly, their mission was to lift 2,700 paratoppers. However, it was not long thereafter sten the Department of the Army notified the USAF of a requirement to airlift 3.500 paratoos and their heavy equipment. This requirenent would necessitate use of 140 of the Citis or their equivalents, when only 64 had two dispatched. Headquarters USAF agreed popyide 96 of the Flying Boxcars, but FEAF



new, whereas the Insignia Blue stripes behind the cockpit window were old. The No 1 engine cowl appears to have been a replacement, sans color, and a blue scallop to the rear. The vertical tail is painted in its squadron colors. While the dorsal fins are added to the booms, the original horizontal stabilizer tip extensions remain. I P ingrassia via MSgt D W Menard.

Below: Paratroops from the 187th RCT prepare to board C-119s from the 314th TCG. In the foreground is C-1198-FA, sin 48-328, to the rear is Marian, C-119. Note the Mae Wests that are being downed by the paratroops for their overwater flight. Fully loaded, each paratrooper carried over 80 to of gear. USAF via NASM 46-37941



would have to provide the remainder of the aircraft. While the Fifth Air Force had aiready converted the 21st TCS, 374th TCG, to C-47s equipped for paratroop operations, the remainder of the requirement took some doing, C-46 aircraft were obtained from throughout FEAF and the pilots were drawn from desk lobs within

The first missions for the C-119s were airlifting trucks from Tachikawa AB, Japan to Taegu AB, South Korea. This airlift began on 11 August 1950.

Inchon Invasion Gen Douglas MacArthur had planned an inva-

sion at Inchon that would take place on £1 Seplember. In the meantime stacinal air strikes were used to hold the advancing Communist forces at bay. When it was learned that the 187th RCT would not arrive in time to support he Inchon invasion, Gen MacArthri decided to make the invasion an amphibious assault, Upon their arrival in the theater, the 187th would be made available for an airlanding or parafropa assault in Koreg, ampair in Koreggamatric passault in Koreg-ampair.

Fairchied C-82 & C-119 alfetta (2007) 55









This right side view of Marian reveals its transitional markings with the original diagonal tail stripes and broad rad bands. The none carries the red/white guartered markings for the 50th TCS 314th TCG to addition the main cent wheel hub caps are painted red. O J Baird

Airhorne troops board these C-119s from the 40/2rd TCG under the watchful eve of a pair of officers in their 1-ton truck Behind the troops is C-119C-13-EA s in 49-135 with its ferocloss face on the clamshell doors. USAF 79638 A.C. If there was nose art, then why not tail art?

Enterprising troops painted a face on the clameball doors of this 314th TCG similars. N the horizontal stabilizer tip extensions on these aircraft and the retrofitted dorsal fillets on total the hooms that date this photograph to some time after mid-1951 NASM 4426111

DEAM SUPPEME C.119C-14-EA s/n 49-144 was being loaded with a special platform that was used to drop the treadway bridge to the 1st Marine Division and the 7th Infantry Division troops who were surrounded at the Chosin Reservoir, USAF 78487AC In June the retreation ROK forces had

destroyed the Han River bridge at Secul. Aconplete pontoon bridge was to have been brough to Korea for the Inchon invasion so that the Hall River bridge could be replaced. This bridge had been left behind in Japan and its loss was no discovered until the offloading began at Inches The solution was to airlift the bridge in C-119sthe only airplane capable of the airlift. Compo nents of the 50-ton, 740ft long, floating bridge were flown to Kimpo aboard 70 C-119s. It was then trucked to the Seoul Municipal Airpor where it was quickly assembled by the combi engineers. On 30 September 1950, 3,034 veh cles crossed the bridge. Gen MacArthur wa first to cross the bridge when he symbolical led the offensive northward. His forces not on reached the 38th Parallel but, with approx from President Harry S Truman and the Joir Chiefs of Staff, had moved into North Kores & operation that had begun as an effort to delet South Korea had now become an attempt at

Airlift Requirements

Gen MacArthur told FEAF that his ground forces would require between 700 and 100 tons of airlifted supplies daily for an indefini period. Hence, Gen Tunner wanted to have he 64 C-119s served by double crews and add tional maintenance personnel, thus enable each aircraft to fly 200 hours per month. His ever, it was soon found that parts (always tob) a chronic problem) and engine shorter would only permit a utilization rate of 100 hour ner month. Therefore, on 10 September Gr Tunner requested an additional 32 C-118st order to sustain the required operations tens

First Paratroop Assault The shortage of C-119s in the theater led@

Tunner to make two proposals to the IB Either 87 C-119s and 40 C-47s could be used scanned Maggle was C-119C-15-FA, s/n 49-158, from the 50th TCS, 314th TCG, carries the squadron Insignia over the forward entry door. Seen here is a 5-ton flightline vehicle painted vellow, and six USAF officers headed out on an R&R whether with their 8-4 bags and summer thatis. The ramp was created by use of pierced steel planking, O J Baird

Faratroops from the 187th RCT exited C-119B-FA. six 48-337, flown by the 50th TCS, 314th TCG on a practice mission over Korea. Their equipment was also dropped through the paratainer doors. Remarks of the former diagonal stripes on the fits were replaced by colored fin tops and the soll nese markings were added, USAF AF 363-4

Buthe time this photograph was taken in May 1961, the 314th TCG had adopted the additional lightning bolt for their markings. The lightning bolt was red on this aircraft, for the 50th TCS. Here Le Audra is shown with her record of 75 combat sorties. Note the nose markings of the seven league boots and group motto: Viri Veniente - Men Will Come, USAF 80079AC

a single drop mission, or all of the C-119s could perform the drop in two days. The 187th opted for the single drop mission. On 18 October. Gen. Turner ordered the 314th TCG's C-119s and the 21st TCS's C-47s down for maintenance.

The take-off was scheduled for dawn on 20 October 1950. The paratroops assigned to the 187h RCT were rousted from bed at midnight pancakes and cold coffee. They then assembled around the aircraft and awaited the hoard. no order. Numerous weather delays due to an sloped the boarding time to 1100 hours. The first aircraft took off at noon and headed loce flew out of Kimpo in tight formation with in escort of Fifth Air Force F-51 Mustangs They few over the Yellow Sea and turned nand for the drop zone. Gen Tunner, flying alongside the formation served as the airhorne nission commander. In another airplane. Gen WasAthur flew to observe the operation. At 1355 hours the airborne force turned on its dee leg. At 1401 hours the paratroons stood us and hooked up. Four minutes later the first tick was dropped on DZ William south of Sukthm Within one hour, 71 C-119s and 40 C-47s dropped 2,860 paratroops and 301.2 tons of soulpment at the two drop zones. High-tension torachs posed a minimal problem since the soverhad been turned off. In comparison with the combat jumps, the casualties were light trivere paratrooper was killed and another 36 sistained injuries. Brig Gen Frank S Bowen. 187h RCT commander, stated that, 'There has retbeen a better combat jump." He did caution hat in the future the spacing between the drop sistenes should be increased so that the large 100t dameter cargo parachutes would not stell the air from each other. With regard to enigment losses, the following statistics









Left Joy In C-119C-13-EA air 49-132 carried be nose art on both sides of the nose. The name Economy was painted beneath the cocknit windows. She is shown here taxying out after off. loading supplies that would later he trucked in the front. To the rear is C-119C-14-EA sin 49-143. These sizerest served with the 314th TCG. Both flight crews and man from the 6127th Air Terminal Group performed miracles during the 10-day supply lift in May-June 1950. The 1,100 tees of artillary shells delivered deliv into two airstries by the C-46s, C-54s, and C-119s provided the marris for victory analyst the Chinese at this point during the war, USAF C-1228-3

Balow left: Jo. In displays 77 sirland resumbly missions and four airborns assaults with numerous air resupply drops for each. The names Martin and Helen are applied beneath the cocknit windows. SSet Jack J Minton was her proud crew chief, USAF



and 2 of 4 % ton trucks were lost. One of the damaged howitzers was repaired in the felt Gen Bowen attributed the materiel losses to the inexperience of his packers. The D-Day conmitment for the airdron included: % ton trude 90mm anti-tank weapons. 1/4-ton trucks, 105mm Howitzers, M-55 anti-aircraft multiple mount %-ton trailers, 6,000-lb load-bearing platform gasoline, water, 105mm and 90mm ammuntion 30 45 and 50-caliber ammunities orenades. 3.5-inch rockets, signal supplet medical supplies and rations.

The 187th RCT fought throughout the afernoon and night and was able to secure the him ground overlooking the drop zones. At 100 hours on the second day, 40 C-119s delivers an additional 1,093 paratroopers and 1068 tons of sumplies. Resumply missions were for during the following two days when an addtional 184 tons were dropped in 31 C-119 so ties. During three days of operations the 1878 engaged a force of about 6,000 North Konst troops, killed over 2,700 of them, and cannot another 3,000. They were less successful their second objective - that of rescuing Ane ican POWs. The North Koreans had move them northward by train.



Ore J Baird, of the 50th TCS, 314th TCG. This picture was taken at Ashiva AB, Japan In 1950. O J Baird



C-119C, s/n 49-162, of the 50th TCS, 314th TCG, carried the name REDIX and this nose art. A J Reveley via MSqt D W Menard scanned

hs 50x TCS Maintenance Officer, Copt Hank relefs, Not litter out from his largection of Copt laigh S Saunders' aircraft, C-19C15-FA ain 49-182 of the 56th TCS, 314th TCG, to pose for this pains. The tailbooms of the early C-19S were leverify weld. This size and shape of the shallow tip sciences are evident in this view. Benilvant by actionation are evident in this view. Colleges of for another photo of this aircraft.

Ret to 7rof was a C-119B-FA, s/n 48-343, assigned to the 62nd TCS, 314th TCG. The sizeral was foreping supplies to UN troops at Dangla when this picture was taken in late 1956. Note the steep climbout of the aircraft in the background. USAF +78750AG

On 24 October, Combat Cargo Command and diviseed a record 1, 182 bors of freight by forgaser, making the largest single-day lift find any one affeld to cate during the local flat. The control was suppassed on the tioley day. The C-119 artifolips continued countryl with the afraid resupply efforts. A group of freight forces was cut off at Joss and nine C-119 dropped 26 stores of smultion, fluid, and oil on 26 October. This diministrol allowed the troogs to rejoin the diministrol allowed the troogs to rejoin the diministrol allowed.

seriors.

Through the efforts of Combat Cargo Comnecks selft, the US Eighth Army was able to season from the Pusan perimeter to season from the Pusan perimeter to set to 15th River abong the Chrinese border in season from the Pusan perimeter to selfself the through the Christopher and the Pusan Wille enemy queriel forces erected and class on surface supply lines, their efforts in regarde by C475 and C4-685 landing at three artificial with crucial loads as C-118s topped supplies from overhead.

One of the lessons learned was that the cirsair eror at the drop zone could be cut almost in all by hanging the C-1198 just above the sall with the nose-high attitude, the cargo was seed by gravity as it exited the aircraft and inted in a smaller area.

The Sukchon-Sunchon drop marked the first small jump during the Korean War, the first small jump from C-119 Flying Boxcars, and the let successful combat heavy equipment drop.

Firschute Requirements

he valishilly of parachutes and equipment in the heater in the quantities required was critical in addition, there was no adequate supply a packutes and equipment in the 21 that said be used for replacements. Parachute use added up in a hurry when one considers is a 177 personnel chute cost \$205 and a suprared chute cost \$205 and a suprared chute cost \$205 and a

seat in additional \$120 each.
Sinor immebres of the 2348th Quartermasinktorns Air Supply, & Packaging Detachistorns Air Supply, & Packaging Detachistorns and Supply, & Packaging Detachistorns and Supply, Su





the Sukchon-Sunchon drop zone. The team was able to recover about 80% of the personnel chutes and most of the cargo chutes. The losses incurred were traceable to a lack of supply discipline on the part of the airborne troops. These personnel had cut up a number of personnel parachutes for souvenirs and to make scarves. In addition, lack of training resulted in the paratroops cutting the tie-down and suspension webbing from the heavy-drop platforms instead of using the quick-release devices provided by the riggers for that purpose. Loss of any portion of the suspension or tie-down system rendered the equipment useless. Subsequently a platoon of 60 men from the 8081st was organized to perform equipment recovery after an airdrop.

Miracle at Chosin

All was quiet as the 1st Marine Division and the US Army's 7th Infantry Division secured positions in the northermost regions of North Korea. US intelligence and the White House claimed that they would be home for Christmas: however the troops in the field has uneasy feelings because of their personal observations. The Communist Chinese entered the fray early on in the Korean War. Suddenly there was a respite. The Chinese assessed the setuation and then attacked at weakest point in the Alited line – the undermanned ROK Army. Combat cargo planes were called in to resupply both ROK and American forces.

Service General Sang Shin-in, who has been one of Mao Tea May She Shife do commanders, led the Chinese K Field Army that consisted to Chinese K Field Army that consisted I Shinese K Field Army that consisted to Shinese K Field Army that consisted walking enteroched in the ridges and mountain solver incipal values of the seal solvey advancing Marines. Many of the seasoned Chinese books had 15 years of command experience and had titte respect for America playing askilly. The Chinese books playing askilly. The Chinese books playing askilly. The Chinese books against the new snow. With the enter-wall of the subject scholing of the mountainsides. the busies scholing of the mountainsides.

bugies echoing off the mountainsides, the hordes of Chinese descended upon our troops. The US Eighth Army began to fall back in the face of the advancing Chinese on 26 November 1950. However, Maj Gegn Edward M





Above right: Ratchet was C-119C-24-FA, sin 49-124 assigned to the 314th TCG. The dust churned up

Above ngtt statcher was G-119C-2e-7-A, bit 49-124 abangered to may 3-tent 1-05C. The ubust tenermed up on the Korean affrields found its way into every nook and cramy of the G-119s, tripling the workload of the maintenance personnel. This picture dates from January 1981, NASM 4A28112

Bolow. C+19C-16-FA, an 49-176, from the 50th TCS, 314th TCG, returned from a mission with its No.2 engine caged. Presumably the engine was abut down on the return leg when the alrecaft was empty. Single-engine performance was not a strong point of the Phyling Boxzer. O J Bord





Above: Grewmen from the 64th TCS, 403rd TCG were performing overwing refueling on C-119C-13-FA, sin 49-128. The dorsal fillets had been retrofitted on this alercaft and served as a billiboard to display the Packet Rats squadron name. To the rear were a VB-17 and an SB-29. V Lunning

Almond, commander of the US Army X Cop expected the Marines to advance as if noting had happened.

The exhausted Marines had bught has battles on 27 November. With temperatures 2007, the Marines had to keep moving what week in their shoppacks virtually furned tis and their fingers stuck to their riggers. But man better to their stucks to their riggers. But Marines' resolve. But, the Marines held usia 4 dawn they counterstaticked. One Olse plation suffered 60% losses within 10 max and their survivers the down the hill. My and their survivers the down the hill. My action and continued in his belief that his Could advance at the way to the Yalk Pier.

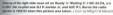
A force of 20,000 men from the 1st Mare Division and the 7th Infantry Division to secured the Chosen hydroelectric plants and reservoir in the snow-covered mountains not west of Hamhung in November 1950. Thens divisions of the Chinese Communist Third Fer Army hange to sever the escape routes better the 5th and 7th Regiments of the 1st Marine Di sion and elements of the Army's 31st and 31 Regiment, 1st Battalion, 7th Infantry Division Around 1,100 Army personnel from each to ment had just relieved the Marines on the side of the Chosin Reservoir when the China attacked. They were overrun and the surve walked or crawled into the Marine lines aran United Nations tactical aviation units.

The name Chosin resulted from the Just ese maps our forces used. Chosin is Japan for reservoir. The Korean name for this loat is Changlin.

C-47s from the 21st TCS Kyushu Georg.

flew overtime missions on 28 November is to 10 not of ammunificion to the Marines at 1 x in and 16 tons to the Army at Sinhungs in an anomal field to 10 to 10 not 10 not







When the Red Devils pranged C-119C-21-FA, s/n 50-166, at Pusan, the enterprising members of the 35th FIS, flying F-80s, commandered the hulk and converted it into their officers' snack bar. D J Baird

favoneration A detachment of the 2348th was designed to Yon-Po Airfield along with a detachnet of C-119s. The Quartermaster personnel trained the Marines how to load the C-119s. While FEAF Combat Cargo Command geared in for a 250 ton ner day canability, a reducedscale resupply effort was conducted around the Chosin Reservoir. By 3 December, the airreupply operation got into high gear and the emrants of the Marine and Army units were sole to regroup. They were cut off to the front and the rear. However, they were able to smooth out an airstrip that could be used by the 21d TCS's C-47s. The Gooney Birds flow 250 soties and brought in 273.9 tons of supplies and arrifted out 4,689 sick and wounded troops. haddion, the 1st Marine Air Wing flew 56 of the total sorties and the Boyal Hellenic Air Force's stackment flew 30 sorties. The 801st Medical Esquation Squadron provided medical care broughout the operation. Their efforts not only swed lives, but boosted the morale and combit efectiveness of the 1st Marine Division. One inexperienced rigger made an error in releasing the load and fell out of a C-119 that

Al least ten C-119s from the 64th TCS, 403rd 100 are lined up on the ramp at Chitose AB.

Japan, V Lunning

was thing south of the Chosin Reservoir at an attitude of 8,000th. He landed in enemy territory, lost his weapons and helmet, but managed to walk out to Yon-Po on the following day. There, he caught the same aircraft for a flight back to Japan. This example only highlighted the requirement for trained personnel. John J Kustura graduated from Parks College

in Cahokia, IL and received a commission as a second leutenant in the USAF. He arrived in Korea without a job. The requirement for kickers was so great, that he was quickly trained for the job and sent out on combat missions. Because the job was not betting of an officer, Lt Kustrus was subsequently reassigned as an instructor. Col Hord Profice was Gen Tumper's lisiens.

officer with Maj Gen Amond's X Copus. The all usion in the field was deteriorating rigidly. Already 800-1,000 cassuatine had been suslained by Amy and Marine forces in the Chosin Reservoir area. Col Pringle harmedly scribbide and interest area. Col Pringle harmedly scribbide and emphasizing the supposition of the substantial residual control of the control of the control residual principal counter and the General was analysed by the principal counter of the Centeral had been available of the Center their quarters and every C-47 in Japan and Korea was ready to go. The C-119s followed. The aircraft were loaded with rations, winter equipment, small arms, and armsrunison. Plying Boxcars were in the area by roon, seeking pockets of troops who eagerly awaited their drops. On the morning of 5 December, Gen Tunner

flew to Hagaru-ri in a C-47 to confer with Marine Mai Gen Oliver P Smith. A formation of C-119s appeared overhead and began disgorging their cargo, Parachutes in red, blue, green, vellow, and white identified the contents of the parcel. One parachute failed to open and the load crashed into the compound, causing Gen Smith to complain about the chute failures and the fact that several of his Marines had been injured and killed by these missiles. Gen Tunner applicated but stated that every effort was made to reduce such happenings, and their success rate was quite high. He went on to make an offer for an air evacuation of the encircled Marines. This offer was countered with a request for the continuation of the airdrops and to fly in Marine replacements. Gen Smith intended to fight his way out. Two days later the Marines were able to break out of Haganusi and link up with the 1st Regiment moving in from Koto-ri. The Chinese then blew up the apron to a bridge crossing a 1,500ft-deep Su-dong Gorge, thus cutting off the escape route for the







way out for the Marines would be to abandon their equipment and net out on foot 1.t Col. John Partridge, commander of the 1st Engineering Battalion, briefed Gen Smith with a most unusual request - he wanted eight spans of an M-2 treadway bridge, complete with plywood planking, to be airdropped to his forces. A treadway bridge had never before been

airdropped. Each span, when packaged for dropping, weighed in at an even two tons and measured 18th (length) and 7th 6in (width). At Yon-Po, one of the bridge sections was testdropped using six G-1 24-ft diameter parachutee. The test was a failure and time was running out. The requested eight spans were loaded onto eight C-119s. However this time a pair of large G-5 48-ft diameter chutes were attached to the ends of the spans. On the morning of 7 December, the eight C-119s departed Yon-Po for Koto-ri. Upon reaching an altitude of 1.000ft, the loads were re-rigged so that about seven feet of the bridge section extended aft of the aircraft to shorten the drop time and reduce the size of the drop zone circular error. The drop zone was approximately 300 yards in length. By shifting the load aft, the drop time was reduced from four seconds to less than two seconds. The eight aircraft let down through the mountains to an altitude of 800ft in a trail formation to drop the bridge spans on an damaged and another fell into the hands of the enemy. A few more supplies were dropped and late in the afternoon of 8 December, a 3rd Infantry Division task force from Hungham broke into Koto-ri. After 13 days of isolation the 1st Marine Division and remnants of the 31st and 32nd Infantry Regiments were able to escape across the only bridge in the world to be airdropped. By nightfall, some 265 tons of equipment dropped by almost 14,000 parachutes had been supplied to the troops at Kotori. Despite frigid weather, adverse terrain, and combat conditions, the units got out with most of their equipment. These intranid Marines and soldiers were dubbed the Chosin Few Senior General Sung Shin-lun's forces suf-

fered massive losses. According to Chinese documents, they suffered 37,500 casualties. including 25 000 dead. Consequently his entire IX Army Group had to be withdrawn from the Chinese order of battle.

During this 13-day operation, 313 C-119 sorties and 37 C.47 sorties had dronned a total of 1.580.3 tons of equipment and supplies to the beleaguered troops on the ground. The breakage rates were high due to the hardness of the frozen ground. While some of the drop zones were missed due to the adverse terrain and some of the supplies were dropped into enemy hands, the air resupply operation was a suc-

The 63rd TCS, 403rd TCG flew this delightful damsel, C-119C-23-FA s/n 51-2563, with her red/white nose rings, checkered nose gear strut doors, and tail stripes, in addition to the Insignia Red Arctic markings. The main gear wheel hub caps were also painted red. The aircraft went on to serve with the French in Indochina (See Chapter 8), V Lunning C-119C-23-FA, s/n 51-2572, carried this large

had Insignia Red Arctic trim and the red/white markings for the 63rd TCS, 403rd TCG. Note how this aircraft had striped nose near deers and four red arcs on the nosewheel, V Lunning

cess. Gen Smith stated. Without the edn ammunition many more friendly troops would have been killed. There can be no doubt that the supplies received by this method proved to be the margin necessary to sustain adequately by operations of the division during this period." For the actions at the Chosin Reservoir between \$1 November and 10 December 1950 by the 31th TCG. 21st TCS. and the 801st Medical Air Fust. uation Squadron, these units were awarded the Distinguished Unit Citation, the first such INSE awards presented to units in the Korean War Major Pullout

After the rescue at the Chosin Reservoir, the entire US Army X Corns began seriously week ing out the details for a wholesale evacuation These plans were started on 11 December This operation could have been accomplished in ten days through water lift, but there was to guarantee that ten days remained before the positions would be overrun by the Chinese Ma Gen Almond planned on using airlift to b fullest. While the Yon-Po Airfield could be used for much of the traffic, an auxiliary airstrip was made on the beach at Hungnam. An all-out airlift was begun on 14 December

and lasted until 0900 hours on 17 December when the airfield could no longer be het against Chinese infiltrators. Throughout they four days FEAF's Combat Cargo Comman flew a 24-hour-a-day operation, during whith the planes took off at five-minute intervals fire ing this time the Command flew 393 sode from Yon-Po airlifting 3.891 passengers 28 patients, and 2,088.6 tons of cargo.

Flying conditions were terfinus due to the adverse weather. The flight crews were not all to rest and had to assist in loading their airplant in order to speed their turnarounds. The tatout and tension actually developed into illnesses by ultimately required the hospitalization of a run ber of pilots. Ground crews also were out to be test. Four C-119s were grounded at Yon-Pots mechanical reasons. If not repaired, they work have to have been destroyed. One had a being elevator replaced and another was flown outsit an inoperative fuel pump. Two engines we pulled from an airplane at Ashiya and flow in Yon-Po to be installed on a third C-119 so full could be flown out. The fourth airplane emenced a failed scavenge pump at the last minu and had to be destroyed by the retreating trop scanned



Carolina Baby was painted on the right side of the nose of C-119B-12-FA, sin 49-113. The yellow corners and words 'CUT HERE FOR EMERGENCY RESCUE' appeared forward of the nose number. O J Baird



The left side of aircraft 49-113 carried this interesting piece of nose art that roughly translates into 40 Men and 8 Horses. The ship was assigned to the 61st TCS, 314th TCG. Written in script, the pilot was 1st LI John C Parish Jr. and the crew chief was Stot William A Roscon. O. J Reich

US Army X Corps Support In January 1951, the US Army X Corps located

in somital sector of Koras was seriously appeal with the North Koras II and V Coppe as they headed toward Worley, a major road pushed by the North Barrier North II and V Coppe as they headed toward Worley, a major road pushed to the North II and III an

Operation Thunderbolt

Se Mathew B Ridgway, Eighth Army commade, assigned the American I and IX Corps is Operation Thumderhold on 25 January 1951. This was recornalissance mission designed to a stance past the fant River. The Fifth Air Force packed dose air support. The reconnalissance to move northward against a Communist swemin force provided by two divisions of the lones 50th Army. Next Gan Ridgway sent the US hild Army. Into action and converted the section into a life facelle attack.

By 13 February the Communist forces had sourced Hoengsong and then focused their streton on Chipyong-ni, another mountainsurounded village northwest of Wonju. Chipyspei was then held by elements of the US Army 2nd Infantry Division. Should the town be taken, which was at the hinge between the US IX and X Corps, the entire Eighth Army would be endancered.

The US Army 23rd Infantry Regiment and a French battalion were soon surrounded at Chipyong-ni and the 2nd Division was then given the highest priority in air support. The Fifth air Force provided fighter support. C-119s from the 314th TCG dropped 87 loads of gasoline, ammunition, and rationion, and ration.

After the battle, X Corps commander, Maj Gen Edward M Almond, said, 'Our air support and our flying ammunition into the circle of defenses, about half mile in diameter, sustained those men in that position, and they held it.'

Operation Killer

Gen Matthew B Ridgewy initiated Operations (Michigan 2) reforms 1915, in a more designed to cut off and destroy the enemy troops who had periestated for South Korea. The United guard and the supporting all shifted destroy the enemy troops who have been periested for the supporting all shifted destroy forces. The early spring rans and thewing locate the heavy losses to the overestended enemy forces. The early spring rans and thewing locate the state of makes means of fires of comments of the state of the sta

Viva La France

Between 14 and 16 February 1981, the Chinese had a French battalion surrounded in a one square mile area near Chipyongn-IL C-1198 from the 314th 17G were subjected to heavy automatic weapons ground fire during these them designs sifted of the surrounded of the sur

The weather plane pilot spotted the burning gasoline-soaked rag markers for the drop zone and circled the area with his landing lights on, heedless of the ground fire to assist the C-119s in their mission. The airdrop was a success and the French used the armunition to fight their way out of the trap with the assistance of an advancing Allied ammored column.

Munsan Mayhem
The initial copy of the 187th RCT into Munsan
was staged from Taegu, Knows, where the ust in
the initial copy and into the initial copy and into the initial copy and into the initial copy and init

The 187th RCT jumped into Munsan northward of Soul or a SMarch During the initial aidrop, 27 jeeps and trailers, a pair of wespons carriers, twelve Term howitzers, lost 165mm howitzers, two large trailers, and 16mm 6002-b. 187th, Immediately thereafter, north and 500 loss of ammuniform, gasoline, food, and other supplies were parached to them. After two days of heated battle with the Chinese and even with daily air resupply, one unit from the 1871th and not eaten for 281 hours and was obserted. An airdrop carrier sight in their to see the suit.

take off in the blind until they cleared the airfield.

During the initial attack on Munsan, one of the C-119s had made a successful drop and on the return trip an engine caught fire. Five of the crew bailed out, but the pilot and co-pilot were caught in the firebail that destroyed the aircraft. It was believed that the aircraft was struck by ground fire. The crew chigh, who had taken his



Skivy Girl was the name applied to the right side of the nose of C-119C-23-FA, sin 51-2558, from the 50th TCS, 314th TCG. Note the retracted curtains for the aft two cockpit windows, and the yellow life rait package stowed against the window. O J Bird.



"Jewel" was the name applied to the right side of C-1198-FA, sin 48-334, from the 65th TCS, 403rd TCG, as she sat on the frosty ramp at K-47. The ship was retrofitted with the dorsal fins and the squadron name 8tue Tail Files was applied. V Lurning

dog Rivets on every mission, carried the dog in his arms as he jumped. The dog had been promoted through the rank of sergeant, and had even been awarded the Air Medal.

Another C-118 was it bady during the office of the month of the month

Wear and Tear

During the month of March, Combat Cargo Command dropped more than 2.300 tons of supplies to a large number of units. Some of the drong were made in single or two-ship runs. Most of the units supplied were American: however. ROK and other UN organizations also benefited from the airdrops. Determining the proper dron zone was difficult at best. The crews had to by-pass units that had received a drop on the previous day even though they were adjacent to those who were to receive their drop. This task was particularly difficult when dealing with supply-hungry units, especially from the BOK Army who would lay out the T markers whenever they spotted supply planes. In addition, the enemy would attempt to lay out similar panels. The cargo carriers frequently relied on radio communication to verify a drop zone. The C-119s from the 314th had experienced

severe wear and tear since their deployment to FEAF in August 1950. By April 1951, 75 Plying Boxcars were grounded for mechanical reasons. This was to have been a 60-day TDV; but turned into a seven-month visit. On several occasions, engines were reported to have dropped off the C-119s with disastrous results. Severe shortanes in engines and sanze parts led to a major deterioration in the airworthiness of the Flying Boxans that regularly flew in an over-grossed condition. The airplanes were grounded while the mechanics and other specialists from throughout Combat Carigo Command worked on them. Of particular concern mend worked on them. Of particular concern were the propellers. The airdrop mission was temporarily jurned over to the 437th TGCI's C-49s. On 23 April the C-119s had been returnabled and proper properties of the control of the control

along with the rugged operating conditions

High-Altitude Drop

During the latter part of May 1951, heavy equipment drops were assigned to the 314th TCG. On 24 May, they dropped 35 tons at Sango-1. The following day they dropped 150 tons to the 187th RCT and 2nd Infantry Division at Usa-Yong-ni. During the next three days the C-119s dropped 100 additional tons to ROK forces at Kap-Turn-il and Sanggang-ni.

Eight C-119s made one of the highest all-lubed drops near a 4,00th mountain top. Under the command of Col-William H Dellacy, the Box - acs orieded the mountain for over an hour as US lighter bombers struck the enemy positions with napalm, regimentation bomber, and rock-ets. A total of 35 tons of ammunition and sup-pies was dropped. According to Col Delsey, volve with supplies was dropped. According to Col Delsey, volve with supplies was dropped. According to Col Delsey, volve with the colours and heavy smoke from the napalm and got 100s results from our drop."

More that 500 isons of supplies were dropped.

and the total could rule to displace were crupping on 31 May and 1 June. The recipients were the 1st Marine Division, 7th US Division, and the 2nd ROK Division near Churchon and Chang-ni. Engineers were building a new airstrip. Despite heavy enemy ground fire and dangerous mountainous terrain coupled with poor visibility from low haoning clauds. the drones were completed.

Brig Gen John P Henebry had taken over command of the 315th Air Division from Gen Tunner

Operation Ripper

mand of the 315th Air Division from Gen Tunner on 8 February 1951. Gen Henebry looked forward to an airborne operation from the day he assumed command. The 187th Regiment Combat Team was being readed for a jump risk Chunchon, when, on 21 March, the 1st Cealry's armored columns drove into the city without much difficulty. The US forces in Chunchon were a mere eight miles from the 38th Parallel.

On 21 March, the 187h RCT and bestigned 18 Tagout and with 80 C-118 from \$14h TCG awaiting a drop into Churdre With the chip's capture, the mission set soutbook However, Geri Rögway envision to the concern had withfrain from Berol and Ge Rögway warrised to pursue them with the Army LCorps attacking at the lerips Revr. The he warrised the 187h to jump into Munsaevi, thillips living accoss the Secul-Nessoria plivawy, so that they could trap the feeting even This reverse and the second plivawy, so that they could trap the feeting even. This rever mission was named Counter.

Tomahawik. Recommissance and intelligent assessment showed that approximately (20) who North Korean toogs were in the vicinity of like san-ni and the mission had to be timed by each to the san-ni and the mission had to be timed by each to the san-ni and the mission had to be timed by the san-ni and the mission had to be timed by the san-ni and the mission had to be timed because of the san-ni and the san-ni

up the energy using arturusing 500-b ber and low-level staffing attachs. The 450d es not 32 0-260 to a target just norm of 5e while the bad 500 Valoration 24 November while the bad 500 Valoration 24 November while the bad 500 Valoration 24 November across the just one one of the object of 250 Valoration 24 November 2

C119s came through with five aircraft slightly damaged by small arms fire. Another Boxcar apprently sustained greater damage and, on the return trip to Taegu, burst into flames. Five of the crew bailed out; however, the pilot and spellet died in the ensuing explosion.

Castured North Korean throops indicated that hy had began to move out as early as 21 black when they had learned that the 167M wald be coming. While the Communist swilcyde a number of espoinage agents in solved a number of espoinage agents in believe that they saw this large concentration of the control of the communitations consisted of the second of the second

ond-rate North Korean 19th Division Without profitable results, the 187th moved enemy troops that were resisting the US 3rd Dysion's advance up the road from Seoul to Yearhon Without a supply line from Secul, the 197th had to rely on a continued airdron resultby On 24 March, support was started with 36 C-119s dropping 40 additional troops and 187.7 tons of supplies. An additional 65.8 tons see dropped by 12 Flying Boycars on 26 and 27 March. During the last two days of the operalon things were pretty grim for the 187th. Many of the troops had not eaten for 36 hours and one artillery battery was down to five minds of ammunition. General Rowen praised he air support by saving. The D+3 supply doo was as near perfect as anyone could magine. We recovered 95% of the supplies."

Aching Back Missions

is ad been done several times before in loss, the 902nd Tactical Control Group facility has been as a second to the control of sand typing the sides of Korea during the war. Interest 1951, they took a particularly chalsing mountain too. Then ewe side was located 4.800t date a mountain in the central sector were the fortifier. There were no roads or trails the typ. Loose rock posed an avalanche to the control of the sector of the control of the typ. Loose rock posed an avalanche to the control of the control of the control of the typ. Loose rock posed an avalanche to the control of the control of the control of the typ. Loose rock posed as the control of the typ. Loose rock posed as a section of the control of the control of the typ. Loose rock posed as the typ. Loose rock posed the type of type of

lag carrier C-118s in their ven-of-vees mustion by ever C-119C-17-FA, s, in 48-195, from in Publish Res., 60th TCS, 402rd TCS during the going bone ceremonies. The ship on the year carrier insigning Red Arctic markings in oddies to the green and white nose and tall in the carrier in the second of the ven-of-vees mustion, they were discontinued after the tarse War. USAF Museum ATC-110C(phor18).

CHIB-10-FA, ain 49-102, operated with the 36th TG, seen here with its nose art, neight TCG, seen here with bits stripes aft of the man and cockpit windows, and on the vertical at it addition, the cowir rings are insignia him. This aircraft has both the horizontal shiller by extensions, and the retrofitted read firs. USA F 90002

ty Lastly, heavy fighting had taken place and the ar site was littered with mines left by both sides

site was littered with mines left by both sides. More than 150 Korean chopie boys, or bearers, were employed in getting the 562nd TacCG initially established on the peak. This 10-day effort during good weather resulted in numerous injuries, including several broken legs, two broken arms, and a broken back. The chogie boys brought radio equipment, generators, and the original tents up the mountain.

The 502nd TacCG approached FEAF Combat Cargo for assistance until adequate roads could be built and normal ground resupply was a able to support the unit. The result was the Aching Back missions named in honor of the d

supplies up the mountain.

The three essentials dropped by the C-119s were gasoline, C-rations and water. For the first Aching Back mission, six C-119s from the 314th TCG flown by seasoned crews were employed. In place of the traditional T-panels, the members of the 502nd TacCG used smoke pots to mark the drop zone. For security research the

smoke pobs were it only after they had been advanted that the C-116 were on their way. The fast mission was flown with accelent washer that mission was flown with accelent washer. While the cloud binerated flow valleys and washer than the control of the pack. The heavy cloud cover for find the pack. The related the drop zone in a small acide pote minutes in the pollets of the Phyling Box. develop the minutes in the pollets of the Phyling Box. direction and speed to plan their drops. Freshold the control of the

Just because the drop was successful did not mean that the recipients would get all of the loof! During the first night, Turkish soldiers guarding the mountain top heard ratting in the boshes. The next day it was learned that Red guerrilla troops had skulked away with some of the gasoline and rations. After that incident, a security perimeter was established after each







a harbed wire compound. The quards had orders to shoot anyone not authorized to handle the materials. The supplies sustained more than 100 peo-

nle on the mountain ton including Turkish soldiers, the choose hove, and members of the USAF 605th Tactical Control Squadron. Dispersal encountered during the first drop

was countered in subsequent missions when only half a load was dropped on each pass. Despite all of the adverse conditions, the aircrews consistently dropped 90-95% of their load within the drop zone during their weekly Bundle recovery for the recipients was no

small chore. They constantly had to direct the hundles away from the radio antennas, tents and buildings. The main Quonset but was holed several times by errant 55-gallon drums swaving beneath the parachutes.

While the weather was forecast as good when the C-119s departed Ashiva AR, it was not unusual for the mountain peak to become socked in by the time the aircraft arrived in the area. Crews then would circle until they reached a critical fuel state in hopes of being able to drop their load. If the weather did not lift. they would head for the nearest suitable airfield and await a change in the weather - sometimes taking several days.

The only known building to be airdropped Back missions. The building was an outhouse constructed from plywood pallets. It had a door with a window. A requisite crescent moon was applied as was the name Li'L Abner.

June Quagmire The rains in June 1951 turned the Eighth Army's communications lines into quagmires. Airdrops

were essential to the support of the US Army I Corps and the ROK Army I Corps. The C-119s had to thread their way through a maze of mountain peaks in order to make their drops on often inadequately marked drop zones. Many of the drops were made at 800ft altitudes. Disaster struck on 3 June when a C-119 formation was searching for a drop zone in the ROK Army 5th Division's area. The Boxcars flew through a barrace of friendly artillery fire resulting in the loss of two aircraft. Consequently, Gen Henebry ordered that the troop carrier aircraft would not enter a drop zone prior to establishing radio contact with a Mosquito controller or a tactical air control party on the ground. In addition, he sent a team of officers to the front to brief the ground units on what constituted a drop zone.

Awards The 314th TCG was awarded the Distinguished

28 November to 10 December 1950, and the Republic of Korea Presidential Unit Citation for the period 1 July 1951 to 27 July 1953.

More Boxcars Needed

The USAF supply system could not keep up the demands of the 314th TCG. The in-service rate nlummeters and more C-119s were lost From the beginning, the 314th never possessed enough aircraft to lift the 187th in one drop. To rectify the situation, a major reorganization of the troop carrier units took place in October 1951. Initially the 314th operated with four squadrons of C-119s. The new plan called for two groups with three squadrons each. One squadron from the 314th TCG was returned to the ZI in a paper move; its airplanes remaining for the new group. Also at this time the operating units were redesignated from groups to wings.

C-119C-16-FA, s/n 49-172, from the 61st TCS. 314th TCG, carries its Green Hornets designator on the retrofitted dorsal fins. The aircraft is dropping the last of its paratainers.

The 403rd TCW, an Air Force Reserve unit at Portland Oragon was called to active diduced Anril 1951, and traded their C-46s and C-47s for C-119s. Personnel from the 403rd transferred to Ashiva and initially shared the aircraft with theveeran 314th TCW. The new Table of Organization & Equipment (TO&E) called for three squarters and 48 aircraft ner winn. Col Maurice F Casevill. former commander of the 435th TCG Man International Airport, Florida), assumed command of the 403rd on 15 May 1952, shortly after their arrival in Janan. His task was formidable Of the 71 C-119s in the unit, only 28 wers in

commission during June: and none were really considered safe for flying. This deplorable state of affairs caused FEAE to demand remedal action. Matters came to a head, and Air Material Command prodded delinquent supplies to provide the necessary spare parts and to exe dite deliveries to Japan. From the Zl. Tadical Air Command provided a number of newerant serviceable C-119s to FEAF, thereby permitted the 403rd to return some of their hance queens to a newly opened repair depot in Birmingham, Alabama. This depot was operated by Haves Aircraft, Col Casey, on 2 September announced Operation Get Ready that had a goal for having 75% of the wing's aircraft conational His maintenance personnel range through with a 60.2% in commission rate in September thereby allowing the wing to parte ipate in its first mission. Oneration Snowhall was flown between fast

3 October 1951. During this operation 315hA Division C-119s experimentally dropped 55-ce Ion drums filled with napalm behind enemyline. The Reserve 403rd TCW was relieved for

federal service on 1 January 1953. At that ting they had 46 of the original C-119s that he deployed to Korea in 1950. Problems with the C-119 had led the airplane to be restricted for carrying passengers and only permitted to eform cargo drops and the carriage of tentroopers. The 403rd TCW was replaced byth 483rd TCW that banafted from the impour logistics system. The 483rd TCW received to initial allocation of 96 replacement C-118 r April 1953. As a result of the improved looks system, the 483rd was able to attain a 67.2% commission rate during the first half of till and by June, this had risen to 78.8%

Operation Feint Maj Gen Trapnell was reassigned to First

Indochina as Commander of the US Mile Advisory and Assistance Group (MAAG) vto was helping the French and Vietnames I building resistance to the ever-growing in Minh forces, Brig Gen William C Westmown became the new 187th RCT commande. unit was out of practice in paratroop operate

not having lumped since before the Koiedo airst Retraining was in order

On the first day, the 315th TCW provided C46s for a battalion-sized drop. The aircraft mived the night before and were loaded. Early in the morning the C-46s departed with pearly 1,000 paratroopers. An earlier aircraft hard dropped a pathfinder team into a fertile valley. The members of the 187th RCT broke into various groups to work out their particular portion of the exercise. Winds on the second day precluded any lumn activity and the planned evercises were canceled. On the third day, C-119s. from the 483rd TCW flew a similar mission with a nathfinder and a second hattalion-load of santroops. That afternoon a formation of six C119s dropped heavy equipment to the troops on the ground. The fourth day brought another butalion of paratroops aboard C-46s, and nine the 187th RCT. After completing the training eeroses, the members of the 187th were sailed into a barbed wire cantonment for two dat All local personnel hard been everywher

from the area and no visitors were allowed. The unor mill began in earnest - this had all the Neither the men of the 187th BCT nor the airnews from the 315th TCW knew that this was out into the open where they could be dissutthed by strategic hombers and tectical

Ighters from FEAF and Navy and Marine fighter and fighter-bomber aircraft Big Gen Westmoreland spoke informally to each of his battalions stating that they had been 315th AD. Well after dark on the next day. C-46s. Inn the 315th TCW, 483rd TCW C-119s, and a ser of C-124s from the 374th TCW began air-

On 15 October 1952, all the elements of a rajor assault were present. FEAF bombers had hammered the east coast of Korea north of he battle line. This was followed by a naval contestment from the sea. The 403rd TCW digatched 32 C-119s from Ashiva without enters of the 187th RCT in an airborne feint. The airborne mission commander was Mai Gen NiCaty As the formation approached the hatteline at an altitude of 2,000ft, they witnessed lating on the ground. Controllers from the noble Radar Bomb Scoring sites ordered a position of artiflery fire to allow the formation. trass safely. They flew in tight formation as al 800h. Just before the aircraft crossed into eremy territory, the C-119s turned back to land #Tagu Coupled with this air operation was a multed amphibious assault made by the 8th

came within 4,000 yards of the heach, they turned back to the troop transports When the C-119s landed at Tangu thousans

loaded with the remaining 800 paretroops of the 187th RCT for their airlift back to Ashiva. The paratroops were then taken by road to their bases at Beppy and Kumamoto in 50-truck convovs provided by the 483rd Motor Pool Soundrop

The actual results of Operation Feint were not publicized. Whether it had an impact on the bat Cargo had the ability to respond swiftly to

Hip Pocket

During June 1953, peace negotiations were being conducted at Panmuniom. It became apparent that, even while these negotiations were being conducted, the Communists were planning another all-out offensive. All commanders within the UN Command began to prepare for the worst. On 21 June. Gen Mark W Clark ordered the 315th Air Division to move the 187th Airborne Regimental Combat Team from southern Japan to central Korea. At this time the C-124 Globernaster IIs were grounded and the 315th had to rely on 53 C-46 and 249 C-119 sorties. On 23 June they airlifted the 187th to Korea, moving 3,252 paratroops and 1,770.6 tons of cargo. During the day the flights arrived at Chunchon and at night they came into Seoul Airport with the aid of the ground-controlapproach equipment. To further bolster the Eighth Army's forces, the 315th Air Division airlifted the 19th and 34th RCTs of the 24th Infantry Division from central Japan to southern Korea. Faced with bad weather, the flights left Misawa and Tachikawa, flew to Pusan or Taegu, refueled and changed crews at Ashiya. and then returned to reload at Misawa or Tachikawa, Between 28 June and 2 July, the 315th Air Division moved 898 soldiers and 284.2 tons of cargo from Misawa and 3,039 troops and 943.27 tons of carno from Tachikawa. The forces were in place

A series of large-scale bombing operations began on 10 July. Barl weather hart harmnered interdiction attacks, but the UN line held. On 12 July an RF-80 mission found the Communists

concentrated along lines held by the US Army IX Corns and the BOK Army's II Corns in the Kumhwa River valley in central Korea. Then, on the night of 13/14 July. Chinese divisions becan attacking the right flank of the US IX Corps and initiated an assault that forced the BOV Army II Corns to retreat. Joint air strikes from the Eith Air Force, Bomber Command, and the Navy's Task Force 77 began extensive operations. By 20 July the UN lines were intact and the crisis had ended. To gain a few miles of territory, the Communists lost more than 72,000 troops - the equivalent of nine divisions from the five armies that were involved in the attack. On 19 July, Gen Mark W. Clark was in a position to state that a truce, short of the administrative details, had been reached

Nocturnal Bogle One night a bogie was spotted by the groundbased radar in Japan. The aircraft was headed for them out of Korea and a pair of F-94s was launched for an intercept. The lead Starfire locked onto the target with its radar and proceeded to make a visual identification. The ground-controlled-intercent (GCI) controller asked if they had found the target. 'Yun.' came the reply. 'Do you know what it is?' queried the controller. 'Yup,' came the reply again, 'Can you tell us what it is?' asked the controller. 'I don't know if I want to,' responded the F.94 dri. ver. In front of him was a solo C-119, apparently returning from a heavy equipment drop without its clamshell doors. The aft cabin was fully illuminated by the interior lights, and inside a kicker was calmly sweeping out the aircraft.

KORFAN ERII OGUE

It was through the combined efforts of all Allied forces - air, sea, and land that led to the ultimate treaty signing at Panmuniom. The troop carrier units assigned to FFAF played a major role in the outcome of the Korean War, and the C-119 Flying Boxcar pulled its weight - oftentimes over-grossed. The greatest detriment to the C-119 operations was the lack of logistical support. The aircraft, crews, and maintainers proved that they could provide support anywhere in the theater



Castly Regiment at Kojo. When the boats his femation of C-119s from the Green funds \$1st TCS, 314th TCG is over Korea, In hinds C-119C-14-FA, s/n 49-146. This picture Miss from February 1953. USAF 82152 A C

The French in Indochina

Enr ten long years, hetween January 1946 and July 1956, the French fought to regain control of French Indochina after World War Two. Six air transport groups from France's Armée de /'Air participated in the operations using a variety of aircraft including: the Douglas C-47 Junkers Ju.52 Nord 2501 Noratias and Fairchild C-119. The C-119s served between May 1953 and August 1954.

Services Rendered States with a request for C-119s that could fly nort of the French Foreign Legion, On 23 April 1953. Secretary of State John Foster Dulles went to the White House to discuss the plan with President Dwight D Eisenhower. It was the helief of the French that having the C-119s. would mean the difference between holding or losing Lags. The French had wanted American military crews to operate the airplanes. This was unaccentable to the United States: however an answer lay with Gen Claire Chennault's airline known as Civil Air Transport, or GAT. which was operating in Asia. Brig Gen Chester E McCarty, who had led the 403rd Troop Carrier Wing (TCW) during the Korean War, went Cargo) in Japan between 1953-1954. In addition, he was in charge of USAF airlift operations in support of the French in Indochina, including the massive airdrops at Dien Bien Phu.

With the end of the Korean War in sight, the United States was able to provide the French with some C-119s from the 314th and 403rd TCWs operating out of Japan. In anticipation of this loan, selected crews from the Aniou, Béarn,

and Franche-Comte air transport groups in the Armée de l'Air began training with the United States Air Force Europe's (USAFE) 317th TCW at Nauhibern West Germany in early 1953 After completing training the French returned to Indochina as a new unit known as Détachement C-119. The unit was supported by US technicians and advisors from CAT. Operation Squaw became the cortename for CAT's support of the French in Indochina during 1953. A total of six C-119s were loaned for the operation. The selected CAT crews went to the Philippines for familiarization in the C-119 that was conducted by members of the 483rd TCW. All US markings were replaced by French insignia. In addition to the CAT crews. 18 USAF mechanics in civilian clothes were sent to Indochina to provide ground support. These six Flying Boxcars left Clark AFB in the Philippines on 5 May 1953.

Initial Operations

Initially the Détachement C-119 was based at Hanoi-Gia Lam. but it was soon learned that the runway was not strong enough to support the heavy aircraft. They moved to Hainbonn, Cat Ri that was more suitable for their operations. As part of Operation Castor, troops from the Franco-Vietnamese army began to occupy the valley near Dien Bien Phu. The C-119s supnorted these troops with airdrops of heavy cargo

French Operations

crews flew the C-119s in air resupply missions. The C-119s proved more effective than the C-47s because of their capacity and quick drop canabilities. The French employment of the air. planes was most extravagant. They flew some supplies, but also furniture, ice cream, and champsone. It was soon concluded that the French should not have use of the C-119s on a long-term basis because of their general insenoneihilitu While the French crews were already flying

ardunus missions dronning garon over Der Rien Phu, the French high command gas them an additional and most unusual assign ment. The C-119s were to become bomben dropping papalm in support of the Gasconn and Tunisie hombardment groups operating the Douglas B-26 Invaders. A liaison office from the LISAF arranged for a single C-119 with a French crew to participate in a test droud napalm on a small village outside of Hainhorn This mission alienated the CAT crews and mor of them left Indochina. Operation Squaw was terminated on 16 July 1953

Operation Squaw II

The battle for Dien Bien Phu began in earned when French paratroops occupied the city of 20 November 1953. Large quantities of batter wire and heavy equipment became a main requirement. In response to the French reques for support, the USAF instituted Project frozen on 5 December. This time 12 C-119s would be made available by the 315th AD. Aircraft for the 483rd TCW were flown to Cat Bi where a datachment from the 480rd looked after the C-119s. A provisional maintenance squadur was established at the base. In addition the 8081st Quartermaster Airborne Supply at Packaging Company sent a detachment to 0r Bi to perform requisite packing, rigging, loss



C-119C-23-FA, s/n 51-2571, taxing at Cat Bi airfield. The Insignia Red Arctic paint was retained along with the green and white markings of the Packet Rats, the 65th TCS, 403rd TCG, USAF



These C-119C-23-FAs were lined up at Cat Bi in the spring of 1954. The first ship was s/n 49-187 from the 403rd TCG, the third and fourth aircraft were s/n 51-2562 and s/n 51-2572, respectively, from the 314th TCG USE



C119C-23-FA, sin 51-2557, formerly of the Packet Rats, was being loaded at Cat Bi in April 1954. USAF



C-119C-22-FA, s/n 51-2536, previously had flown with the Flying Jennies, 63rd TCS. 403rd TCG. The hole beneath the cockpit window came from a 37mm round which almost caused the loss of Paul R Holden's arm. USAF

is all exportent maintenance to support in firefront operations. Determen 7 and 21 flowers, the already capital Collection, the already designed from houteze arrangement interfaces, and bashed wire. The C-119 source as scheduled on coses by Christians, as the Neth Convented four divisions to the second of the convented four divisions to the convented four divisions of the convented around 200 stores for the protect of supplies.

All that of evappment and supplies to but the property of the property of the property of the the first present and the property of the the first present and the first property of the property of prop

A second attempt was made during which is HSOND-bades was dropped as a separate use The main buildozer, now weighing a mere "Libb," was strapped to a steel plate with youting planking to prevent the load from typen landing, in addition, lead weights we added to the underside of the buildozer to wate center of gravally. A string of 21 smaller, selected parachules lowered the buildozer to use one of graval para center of graval parameters, and collect parachules lowered the buildozer to gravely to earth. French paramopers used This drop, flown by American crives, seconds. According to DOI Maurice F.

Casey, 483rd TCW commander, this was the heaviest single load ever dropped in the Far East.

By mick-april 1954, the 816th TCS, 483rd TCW, moved to Clark AFB, Philippines, with 15 C-119s, tasked with making six round trips daily to Indochina. The 1,000-mile leg from Clark to Hajshrong could be flown in about six hours. At Clark, cargo handling personnel worked double shifts breaking down the loads for separate destinations in Indochina, preparing the documentation, and loading the aircraft, ing the documentation, and loading the aircraft.

The French could muster 70 C-47s of their own for the air resupply mission. Insofar as the C-119s were concerned, the French had 22 crews that were trained by the 317th TCW in Europe, but they could find only 10 crews at any one time. Pilot fatigue mounted and once again the French had to request support from CAT, In early January 1954, 21 CAT check pilots were sent to Ashiva AB. Japan for training in the C-119. A contract was signed on 3 March 1954, calling for 24 CAT pilots to fly the 12 C-119s, which were loaned and maintained by the USAF, in French markings, and for the exclusive benefit of the Expeditionary Corps. The CAT crews would be expected to fly all requested logistical support missions at the direction of military authorities, with the exclubombs or napalm would never be required. Thus began Operation Source II. The French had agreed to pay CAT \$60 per flying hour and guaranteed at least 60 hours per month. The CAT crews shared an operations building with the French who also flew the C-119s

Communications was always a problem. The CAT plots did not speak French and many of the drop zone controllers spoke no English. Consequently, almost haif of the supplies were dropped outside of the drop zone, thus providing assistance to the enemy. A solution was at hand when the French-speaking operations manager of CAT, Frank Guberlet, was ordered to the base at Halphono, Guherlet attended the

French operations briefings and provided a translation to the CAT crews. At one point, it was thought that Guberlet would have to fly on the missions to act as an interpreter, but through his briefings and the use of Englishspeaking drop zone controllers, he was spared the duty, Guberlet also negotiated for improved air support by French F6F Helicat plots flying of the French carrier Arromanches.

Lt Gen Henri Navarre, newly arrived commander of the French Union Forces, believed deep in the enemy occupied western portion of North Vietnam, and force them to fight in the open. Despite much opposition from Mai Gen René Coony, commander of the all-French forces in North Vietnam. Brig Gen Jean Dechaux, the commander of the tactical air group known as Catec Nord, and Col Jean-Louis Nicot, commanding officer for all air transport in the French Expeditionary Corns. the die was cast. Having been there before, the French selected Dien Bien Phu, a wide flat plain with surrounding hills. He wanted to place troops in the surrounding hills and establish a main base in the valley. The French had left an airfield they had previously constructed in the valley, Col Christian Marie Ferdinand de Croix de Castres was named on-site commander. What Gen Navarre failed to do was take into account the voracity and ingenuity of his enemy. Gen Vo Nguyen Giap ordered his troops to assault the surrounding mountain peaks one at a time. Then his troops dragged anti-aircraft guns to the mountain tops. Resupply was conducted by a marathon line of peosupplies to the base of the mountains. The civilians carried the ammunition and supplies up the slopes in baskets. Scattered resupply drops to the French fell into the hands of General Giap's troops. The ammunition was hauted up to the mountain peaks and used against the

French. With the Communist forces holding the

high ground, the end was igevitable...

by Fairchild free filt (1807)



While the C-119s were employed primarily in support of Dien Bien Phu, they also airlifted supplies to the French garrison at Luang Prahann, and made twice weekly courier missions. between Cat Bi and Saigon. While officially denied. USAF aircrews flew C-119s to Dien Bian Phy for the Erench Sometimes the crews actually landed there. On 10 March 1954, Mai Thomas Yarbrough flew out of Dien Bien Phu. making him the last USAF pilot to do so. He departed as a heavy artillery barrage began in Minh three days later. Major Yarbrough commanded the C-119 detachment at Cat Bi, serving in that capacity between February and May

Last Stand at Dien Bien Phu

The city of Dien Bien Phu sits in a mountain bowl. Its valley floor is at an altitude of approximately 2 000ft with the surrounding mountains rising to 6,000ft. Of topographical interest were the 10 conical peaks, resembling huge ant hills, that dotted the area giving the enemy a marked advantage. While the French positions were located in the valley floor, the Communist Viet Minh held the mountains, ringed with anti-aircraft guns. Although the defenders had a number of strongpoints in the hills, they had stripped them of trees to build their fortifications. A C-119 was shot down on 11 March while approaching the airfield. On 13 March 1954, the siege at Dien Bien Phu went fullscale. On the following day, Communist Rien Phu destroying seven Grumman F8F Bearcats, two C-47s, one C-119, and two Sikorsky H-19 Chickasaw helicopters that were on the ground. To the northeast of the airfield, strongmoint Restrice fell to the Viet Minh. A reinforcing battalion was dropped into Dien Bien Phu on the following day. By 17 March, two more strongpoints fell. Resupply operations became increasingly more hazardous because the Communists had more than 100 37mm guns in the area. These anti-aircraft guns now controlled the approach to the airfield.

Between 13 March and 7 May 1954, more than 7,000 tons of equipment were dropped to the French parrison at Dien Bien Phy. While 2.000 tons were dropped by the C-47, the remaining 5,000 tons were dropped by the C-119s CAT crews flew 682 airdron missions in support of the battle at Dien Bien Phu. It was estimated that the garrison would have run out of supplies by mid-April had it not been for the

The French had achieved reasonable results using C-47s to drop napalm on enemy positions and asked the United States if they could use the C-119s for the same purpose. In a desperate attempt to turn the tide of battle, the C-119s were employed as bombers on 23 March. The clamshell doors were removed and the aircraft were loaded with nanalm. Six tons of napalm were dropped on the Viet Minh gun emplacements: however the rain-spaked forests refused to burn. One C-119, carrying 4,000 galin Indochina In the foreground is C-119C-17-EE e in 49-105, carrying the markings from the fiber Tail Eller 64th TCS 403rd TCG The squadres name appears on the dorsal fillet. Blue and white strings are applied to the first nose and none near doors. The cowl rings are blue & Erench rounded replaces the USAE star and har on the honms and winns. Via demonate Historian Magazine

lons of napalm in 55-gallon drums crashed on take off from Cat Bi on 23 March Seven C-47s were shot down by 27 March

resulting in the French dropping from 8,000 during the day and 1 500-2 000ft at night The side cargo doors of the C-47s necessitated numerous passes resulting in greater exposure The C-119s could drop seven tons in a sin-

ale ness with near perfect accuracy. Cores quently they were never exposed to the anti-aircraft fire for more than three minutes t was only during the last week of the battle for they too were forced to higher altitudes. The planes were flown by CAT pilots during the day and French crews at night. Because of the high level of C-47 traffic, the C-119s were limited to two half-hour periods per day over the door zone. In order to increase the drop altitude from 8 000-10 000ft, retain accuracy, and limit depersal the French developed a parachadeployment delay system. A piece of refueling hose hobbled the parachute until the parachute reached a lower altitude. Then, an exploding charge with a time-delay fuse allowed the pagchute to deploy. This system was then adopted by members of the 8081st Quartermaster & home Supply and Packaging Company at Ca Bi for use on all airdrops during the last be weeks of the campaign. While crews believe that they could place cargo pallets within a 331 square yard area, ground forces could on retrieve about one-third of the loads. The arrogance, frustration and desperate

of Col de Castres were born out in his 4 Ma 1954 communiqué: 'When the Air Force talks' me about the risks encountered by the a crews, while every man here faces infinite larger risks, there cannot be any double stadards. Air drops must henceforth begin at 200 instead of 2.3008. The considerable intent between each plane flying night drop mission has ridiculous results. Quantities which as dropped already represent only a fractions what I request. That situation cannot go a much longer."

C-119 Losses

Nearly every aircraft showed scars from the tle. One aircraft, flown by Hugh H Hicks, wast by 37mm fire that shredded the fuselace on tured both engine nacelles, and caused the la of alleron trim tab control. He managed to on plete the drop and return safely to Cat B II another instance, a C-119 flown by Thoras Sailer had its tailboom and rudders riddet 37mm fire and yet managed to return to be

Cart Paul R Holden, CAT's director of operations, elected to fly in the right seat of C-119C sin \$1,9536 on 24 April 1954. A new op pilot Ballace & Buford occupied the left read on this mission Anti-aircraft fire filled the skips as the aircraft approached the drop zone at Dien Rien Phy. The aircraft was bracketed and a 37mm round went through a tailboom without explodin Another round entered the cocknit at the fold side. It exploded, causing damage to the upper part of the cockoit and severely wounded Holden, Buford, a veteran of the Krean War completed the drop and returned to Cat Ri. French doctors insisted on amoutatno Holden's arm, but he opted to be evacuated to an American military hospital at Clark AB. Philippines USAF doctors saved the arm. allowing Holden to return to duty several

During April 1954, the 483rd TCW C-119s supplying Dien Bien Phu flew 477 sorties, during which 19 of the aircraft received flak damage.

Earthquake McGoon - A Legend

James B McGovern Jr. was born in Elizabeth. New Jersey, on 4 February 1922. After gradution from high school he became an aircraft mechanic through schooling at the Casey Jones School of Aeronautics. Later he went to pany in Patterson, New Jersey, where he sperated an engine test stand. He enlisted in he Amy's Aviation Cadet program, earned his wings and was commissioned. By Novemher 1944 he was flying P.51 Mustangs with the 23rd FG in the China-Burma-India Theater He bagged a pair of Japanese fighters on 20 January 1945. After the war he remained in Dina fulno C-47s with the 322nd TCS where be pained 475 hours of multi-engine time. McGovern separated from the service on 12 April 1947, and joined CAT as a co-pilot earning \$560 per month. In April 1948 he was pronoted to captain garnering \$850 per month br 60 hours of flying time and an additional \$10 per hour for overtime. He generally logged over 100 hours per month; thereby samine in excess of \$1 200 per month - not

McGovern was 5ft 10in tall and weighed between 225 and 300 lb. Tales of his prowess indirking, fighting, and womanizing led to him becoming equated with Al Capp's cartoon theracter Earthquake McGoon. He also had a sot side to him - he laughed easily with his hards and was most at ease with children. CAT's Manila station manager, Al Kindt, once sublished a poem depicting this legendary individual.

The rumor is growing apace With a lecherous smile on his face. is free hundred pounds shake the earth when he walks. Yet soars with the grace of a loon.

On 6 May 1954, flying with Wallace A Buford, McGovern approached Dien Rien Phu with an

Indolence was McGovern's greatest failing C-119C-17-FA, s/n 49-186, returned to Cat Ri wit

severe damage. The right propeller was feathered and the left prop was severely bent.

He dressed in gaudy clothes and flew without the necessary equipment - navigation charts and let-down procedures. He was continue ously being written up on his check rides for miraculously finding his airfields without the requisite equipment. While sloppy in his flying artillery piece. They were in Bird Two in a flight procedures, he was not known for shirking responsibility for a worthy cause. He never as an inspiration to others in his unit with On 4 December 1949, his accident-free luck

ran out when he was tasked with fiving a deported woman and her child from China. While approaching Kunming he was unable to pick up reliable ADE signals, due to the night. time distortions, and had to alter course for Hainan. The C-47 ran out of gas and he made a forced landing on a sandbar in a river in McGovern was captured by the communists and interned at the Great Asia Hotel in Nanking. On 31 May 1950, a bearded, disheveled, and disgruntled McGovern appeared in Hong Kong. He went home on leave

Earthquake McGoon returned to Asia in time to participate in Operation Squaw II. While outwardly his demeanor had not changed, his stint in a communist prison had matured him. His lackadaisical attitude prevailed, until he was drawn into a conversation about communism and a sober philosopher emerged.

The loss of Earthquake McGoon shook the CAT crews badly. They talked about a shutdown in protest, but rain canceled the missions for 7 May, and on the 8th. Dien Bien Phy fell. thereby preventing a confrontation between the crews and their management med

of six. It was McGovern's 45th mission, and he was determined to make the drop count. As they approached the drop zone flying C-119C s/n 49-149, a curtain of flak was thrown up around the aircraft. Shrapnel hit the left engine and it shuddered. Instinctively, McGovern feathered the damaged engine. The tail was riddled by enemy fire. McGovern was unable to maintain altitude and had to restart the dead engine. Steve Kusak, in an accompanying C-119. advised McGovern to jump and await a helicopter pickup. McGovern elected to stay with the aircraft so as not have to risk walking out as he had once before. Kusak directed McGovern towards a narrow, winding river where a belly landing might be attempted. On the approach to the river McGovern ran out of altitude and radioed Kusak. 'Looks like this is it. son.' A wingtip caught the ground sending the aircraft into a double flin. The aircraft evolvded the two French kickers.

EPII OGUE

According to the Fairchild tech rep in the Far East, G.T. Ewart, the C-119s were subjected to more anti-aircraft fire than had been experienced in Korea. The flak was said to have been as dense as that over the German Ruhr valley fusion World War Twin.

Aircraft s/n 49-184 returned with 60% of the right rudder missing. The left vertical stabilizer was full of holes, as was the right side of the horizontal stabilizer and the entire elevator. In

addition, the left boom was riddled.
Aircraft sin 51-2552 returned with 90% of the left inboard flap shot away. A 36-inch diameter hole was made in the nacelle near the flap. The left oil tank and left main gear tires were hit by flak. The entire left boom was riddled by flak. The left rudder and tab cables were badly damend. Only tanger flat individually damend. Only tanger flat individually seems still individually seems still individually.

on each cable assembly. One blade on the left propeller was severely damaged. Of the 35 C-119 Flying Boxcars loaned to the French for their operations in Indochina,

The US troop carrier group and squadron markings were retained along with any nose art that was on the airplanes. At the end of their service with the French the C-119s were returned to the US. again through Clark AB.

Of the 35 aircraft to have served with the Détachement C-119 in Indochina the known serial numbers are given in the table below.

The major complaint of the CAT crews was the complexity of the C-119, institute as market nance was concended, From a flying stand-point, the aircraft could delever more cargo quicker than any offs prediscressors. However, the French were so impressed with the psylvidad and quick or holasoft-fload capabilities of the C-119 and the heavy-load drop capability, along with a resiliency for baster duringly, that their resilience of the control of the contro

The battle for Dien Bien Phu lasted 170 days
the longest engagement fought by the
French Expeditionary Corps in the Far East.
The last 57 days were the most furious. By
March 1954, the ranks of Col de Castries'
grew to some 16,000 men consisting of members of the French Foreign Legion, troops
from the Farench colonies in North Mirica and

loyal Vietnamese. At least 2,200 of Col de Castries' troops died during the battle, while Ger Vo Nguyen Giap's force of some 50,000 soldiers suffered around 23,000 casualties and 8,000 dead.

8,000 dead.
With the withdrawal of the French for Indochran, the country was olived into North and South Velezien, with the North being our and South Velezien, with the North being our pro-Western government. By 1962 American Velezien government in South Verlaman, leading Soviet Premer Nikela Minacutev to remark to reduce the south of the North South Velezien and big in the North South Velezien and big in the North South Velezien and big in the North South Velezien and South Premark Nikela and to gait in the Orthop to South Premarks and self lind and oug at in the Americans will be able to said it out for a title is longer, but eventually they also come to the North South Premarks and College to the Velezien to the College would retempt to the College would re

region as described in Chapters 16 and 20.

Fairchild was extremely proud that the C-119s centinsed to soldier on in Southeast Asia in support of the French at Dien Bien Phu and produced this full-page advertisement in Aviation Week Magazine.

Of the 35 C-119 Piying Boxours loaned to the — the longest e French for their operations in Indochina, French Expedition Throbe aircraft, favoram from the US units in Korea, White the Calex AB in the Philippines, where the grew to some 16, to Us national insigna and USAF were painted out and replaced with the French national insignia.				
Series	Serial	USAF Unit	Name / Remarks	
C-119B	49-116	403rd TOG/64th TCS		
C-1198	49-131	403rd TCG		
C-119B	49-137			
C-119B	49-139	314th TCG		
C-119B	49-144	314th TCG/50th TCS		UCSON Chee-Chee
C-119B	49-149	314th TCG/61st TCS	Capt James B McI	Dien Bien Phu on 6 May 1954. Govern, aka Earthquake McGoo Ilace killed in crash landing.
C-119B	49-152			
C-119B	49-165			
C-119B	49-183			
C-119B	49-184		Lost 60% of right	rudder due to AA fire.
C-119B	49-185	403rd TOG		
C-1198	49-186	403rd TCG/64th TCS		
C-119B	49-187	403rd TOG/64th TCS		
C-119C	51-2536	403rd TCS/63rd TCS		len, CAT director of operation ght arm due to AA fire on 24
C-119C	51-2537	314th TCG/61st TCS		
C-119C		403rd TOG/64th TCS	Oriental Beauty	
C-119C	51-2541			
C-119C	51-2543		Kansas City Kitty	
C-119C		403rd TOG/61st TCS	- Long ring	
C-119C	51-2546			
C-119C	51-2540			
C-119C		403rd TCG/64th TCS	Lost 90% or left in	aboard flap due to AA fire.
C-119C		403rd TCG/69th TCS		
C-119C		314th TCG		
C-119C		403rd TCG/63rd TCS	(Nose art)	
C-119C		403rd TCG/65th TCS		
C-119C		403rd TOG/63rd TCS	Rose Marie	
C-119C		314th TCG/50th TCS		
C-119C		314th TCG/61st TCS		
C-119C	51-2577			



European Operations

As an outgrowth of the Marshall Plan, the North Martie: Treaty Organization (NATO) with borned on 4 April 1949. The Brusselis Pact, speed on 17 March 1949, stated that if one of the signatures was attacked in Europe the other members would provide all requisite millary and other assistance. These signatories were Britan, Belgium, France, Luxembourg, and the Neiherland.

in the United States Senate, the Vandenberg Resolution was agreed to on 11 June 1948. It cased for United States participation in regional and other collective security arrangements outsis the Western Hernisphere under United Nations suspices and led to talks with European restions for a military defense alliance

uses the Allaried Ceean. Hashen actions met in Washington, DC to sp. such as military siliance agreement. They could be dignotines of the Brusself as dated Canada. Demmark, Iceland, Italy, two, Portugal, and the United States succeed this collective security agreement succeed this collective security agreement or a large of the Collective security agreement in July 1989. Forciantly a similar concept had see melected after World War Chee. Action 13 kbrn Adardic Treaty stated that attacking seminary control of the control of the state of the collective security agreement to the collective security agreement and the collective security agreement to the collective security and the collective the collective security agreement to the collective the collect

assacing all of them.

sith within Europe would become an inteyal and NATO operations within the collecbergaing unit. The first USAF C-119
ing Boscars to operate in Europe were from
a SSAF CH9 USAF Reserve unit from the
castact CN9. a USAF Reserve unit from the
castact CN9. and the CN9. and the
castact CN9. are followed by the Regular AF Force

17th Troop Carrier Wing (TCW) that was reac
ind in 1952. CN9 RNATO nations also pro-

CITIC, Do 15T., was delivered from the factory the schaff CO 2d Greenites AFR, SC, and ward with the wing while on active duty at more sin the wing while on active duty at models at R, was clearmany. The natural society and the school and R, was considered and the school and R, was considered and the school and the scho

hese 433rd TCG C-1119s, including ship 50-12t, were taking on a lead of French paratroops of Nein-Main AB, West Germany in 1952. USAF Beeldes photo 287. G via C N Valentine

vided airlift support, many using aircraft obtained from the United States.

60th TCW In Europe

The 60th TGW had operated C-82s in Europe between 1949 and 1951. They gland C-119s in 1951 then C-54s. In 1953 the wing began taking on C-119s had then you person that they operated until 1968. Initially based at Rhein-Main AB, the 60th TGW provided airlift for tropps and cargor throughout Europe, North Africa, and the Middle East. It also provided training to the 433 del TGW between August 1951 and July 1952, and the Middle 1951 and 1951 and July 1952, and the Middle 1951 and 1951 and July 1952 and the Middle 1951 and July 1951 and July 1951 and July 1952 and the Middle 1951 and July 1952 and The Middle 1951 and July 1951 a

1953.
The 60th TCW operated Kaiser-built C-119s.
C-119F-KMs had a serial number range of 51-8098 through 51-8168, whereas the C-119G-KMs ranged between 53-8099 and 53-8156.
Having aircraft from these two production hatches in the same sign cursed confusions with

similar nose numbers. To solve this problem, the 60th began using smaller nose numbers utilizing the last four digits of the tail number.

Mutual Defense Assistance Act The Mutual Defense Assistance Act was

passed on all September 1946. Il provided milk any all to the NATO allies. Known as the Mutual Defense Assistance Program (MDAP) and the Mutual Defense Assistance Program (MDAP) and the Mutual Defense Assistance Program (MDAP). For the MISH and MISH and MISH ASSISTANCE Program (MDAP). For the USAP in particular, that was backed by America's America of Democracy, allier characters were all selected to the MISH and MISH and









C-119C-20-FA, s/n 50-149, displayed its red and green squadron colors on the nose and tall, red cowl rings. The aircraft was also assigned to the 433rd TCG. C N Valentine

C-119C-20-FA, s/n 50-148, was assigned to the 433rd TCC. The 67th TCS insignia was carried beneath the drop windows. British Ministry of Supply Ref No W1192/6 via C N Valentine

Jayhawker was a C-119C assigned to the 433rf TCG. This view reveals the details of the crew boarding ladder. C N Valentine

Activation of The Royal Ohio Known as The Royal Ohio because of the con

position mainly of Ohioans, the 433rd TCW with its four squadrons, 67th, 68th, 69th and 70 TCSs. trained at the Cleveland Municipal Asport, OH, On 15 October 1950, the 433rd TOI was activated and deployed to Greenville AFE SC. Three of the four squadrops were actuald and the resources of the 70th TCS were redutributed amongst the activated squadrors. Greenville, they transitioned into C-119s tv began arriving in late November. Training on tinued until 5 July 1951, and then they reployed to Germany, Led by a former United & Lines captain, Col Harry W Hopp, they took to wing to Westover AFB, MA, where the obtained one MATS payingtor per aircraft order to make the Atlantic crossing. Their ma took them to Harmon AFB. Newfoundar Keflavík Ineland Rivie West 1 and RAFRI tonwood. For the last leg, they flew in the ton carrier vee-of-vees formation to Rhein-Main II Lt Gen Lauris Norstad. Commander of USA Forces Europe (USAFE), personally green



KANAKA' was another 433rd TCG C-119C. It was photographed at Udine, Italy in 1951 during one of their regular deployments with Army forces the West Germany. C N Valentine.

The 433rd TCG operated C-119C-21-FA, s/n 55-158. The aircraft carried its red and white squadron colors. Lee Davis

the air echelon of the 433rd TCW upon their avail. General Norstad was also on hand when the ground echelon of 1,183 officers and aimes arrived at Bremerhaven aboard the SS General Stuget. The 433rd remained at Rheim-Main AB until they were inactivated on 14 July 192. The motilo of the 433rd was, "If we can't devier. Lyou're better of without it."

Major NATO Exercise

nine last of 1951, the 433rd along with the 60th accident of an ansieve NATO exercise. White the 432rd was equipped with C-119s, the 60th contract operating their well-worn C-82s ang with some C-119s. Troops from Belglum, Casals, Dermark, France, Great Britain, Icerat, by, Luxerhourg, the Netherlands, Norwy, Portugal, and the United States were moved in this exercise.

Scheduled Cargo UGen William H Tunner, who had formed the Combat Caron Command in Japan in order to cope with the Korean Conflict, took over comneed of USAFE from Lt Gen Norstad in July 1953. In addition to commanding US Air Forces a Europe, the USAFE commander also was sensesible for the air forces of the NATO miles. To his dismay. Gen Tunner found that the maintenance and supply of his USAF units and those of the MDAP nations relied upon traational ground transport lines. The in-commisson rate for USAFF tactical aircraft fell to 80%. and as low as 50% in some instances, due to a ack of parts. At one point, this totaled 225 aircut Sizing up the situation, Lieutenant Genstal Tunner ordered troop carrier aircraft in the 200rd Air Division (AD) to fill the pipeline with teneeded critical spares. By November 1953. he had established the Air Logistics Service ful would initially fly 1,000 tons of cargo per north throughout his command. Within a year his foure had risen to 3,600 tons per month. The Air Logistics Service (ALS) had major tunk lines and feeder lines in its system. Eightyby per cent of the cargo carried was diagricity nature required to keep the fighter into operational. The other 16% was filler

with thoughout fine command. Within a year the fixed point for 1000 tones per month, the law Logistics Service (ALS) had major as with an an electric and the law Logistics Service (ALS). It had major as with an and bead in me in in system. Cityle 15 sportly radius required 10 leep the fighter in several than 1000 tones (ALS), a sawly of law logistics (ALS), and law logistics (ALS)





The ALS routes covered 16,000 miles: C-119s operating over these routes covered 260,000 miles per month. They operated 58 flights per week utilizing 18 aircraft per day. Orders would be cut and a C-119 and crew would depart on a two-week circuit of the system. The trunk routes stopped at RAF Burtonwood. England: Chateauroux AB. France: Rhein-Main AB. West Germany: Erding AB. West Germany; Bordeaux AB, France; Madrid, Spain: Nouasseur AB, French Morocco: and Wheelus AB. Libva. Feeder routes covered the area between Rhein-Main and Chateauroux with stops at Hahn, Bitburg, and Landstuhl ABs in West Germany; and Toul-Rosières, Chaumont, and Laon ABs in France, ALS routes were also flown by C-119s in the Belgian and Italian air forces. Later the Norwegians obtained

the Flying Boxcars and joined the Air Logistics

Service. The MDAP routes ran from the Danish capital Copenhager; through Amsterdam in Holland; Brussels, Belgium; Chateauroux, France; Rome, Italy; Athens, Greece; and Eskisshir, Turkey. Another MDAP leg operated between the Erding AB in West Germany, and between the Erding AB in West Germany, and

Six USAF fighter-bomber wings, a pair of pilotless bomber squadrons, sight fighter-interceptor squadrons, the three C-119 wings, strategic bases in North Africa, the MDAP units of NATO, and the Army Aviation units in West Germany all benefited from the Air Logistics

Service.

Prior to the establishment of the ALS, an average of 45 days was required for a unit to obtain requisitioned parts. With the advent of the airlift service the flow time was cut to about 28 days. At the end of the jing, was Turkey.



days was reduced to 15-20 days. Princity items that had taken 16 days before the ALS had been initiated was reduced to 6 days.

Air Logistics Service Units The 60th TCW operator its C-82s until 1953. While some C-119s were in their inventory in 1951, it was not until 1953 that they were solely equipped with this aircraft. The 60th moved from Bhain-Main AR West Germany to Drauy AB France (38 miles west of Paris) on 15 October 1955. They remained at Dreux until 25 September 1958, when they were inactivated. Two of the 60th TCW's squadrons, the 11th and 19th were reassigned directly to the 392nd AD upon the inactivation of the wing. The 60th TCW provided training for the 433rd TCW between August 1951 and July 1952. They later provided training to the 317th TCW between July 1952 and March 1953.

The 317th TCW was activated on 14 July 1952, at Rhein-Main AB, West Germany, under popent squadrops of the 317th TCW were: 39th, 40th and 41st TCSs. On 17 April 1953, the wing moved to Neubiberg AB. West Germany. where they provided training for the French who would horrow 35 C-119s from Combat Caroo Command in Japan for their operations in French Indochina (see Chapter 8). From 17 April 1957, the 60th operated out of Evreux-Fauville AB, France, until their inactivation on 25 September 1958. The base was located 65 miles northwest of Paris

The 465th TCW was activated on 25 August 1953, replacing the 313th TCW at Mitchel AFB, NY, and operated in a training status until 2 April 1954, when they took up residence at Toul-Rosières AB. France, under the command of Col Earl W Worley. The component squadrons of the 465th TCW were: 780th, 781st, and

Evraux-Fauxilla) AB France on 23 May 1955 The 465th TCW participated in USAFE operations until their inactivation on 8 July 1957. MDAP C-119s came from the 20th Transport

Squadron, 15th Transport Wing, Royal Belgian Air Force: and 2, 50, and 98 Grunni (Squadrons) 46° Aerobrigata Transport Wing 1, Italian Air Force, In 1957, No 335 Squadron, Royal Belgian Air Force began operations with the

465th TCW Deployment The aircraft were flown across the Atlantic

while the support personnel and heavy equipment went by sea in November 1953. An advanced party from 465th Maintenance Squadron went to Toul-Rosières AB aboard the LISS Patch, while the main body sailed aboard the USS General Bunker, arriving on 3 April 1954. The media, led by Walter Winchell, stated on a Sunday radio broadcast that the Soviets had predicted that the trans-Atlantic deployment of the 465th TCW would end in disaster with half of the aircraft crashing because of crew inexperience, unreliable aircraft, weather. and the like. What the Soviets had forgotten and what the media may never learn is that most Reservists have prior active duty experience and with minimum effort can be notified for such deployments that are completed with aplomb.

The 465th TCG Headquarters and the 780th TCS were assigned to Toul-Rosières AB. France, while the 781st went to Wiesbaden AB. West Germany. The 782nd TCS was to bed down at Neubiberg AB, West Germany because the French were unable to accommodate the entire wing in such short order. Those stationed at Toul-Rosières AB spent a miserable winter and spring in 1954 living in tents and wading through mud.

the 22nd AD. Photographed at Traub AR. France in June 1959, the aircraft was taxving past a sair of RAF 2 Son Supermarine Swifts. Note the departing FOLLOW ME truck in the background

Operation Brown Jun

In this scenario, the Blue Forces had made an amphibious assault and occupied parts of the Island of Zealand in Denmark. Their mission was to capture Copenhagen, 200 miles to the north. The Orange Forces made a feeble attempt at defending their positions, while the Blue Forces enjoyed air superiority.

For this evernise, 50 C-119s from the 320st AD staged out of RAF Jever, 20 miles west if Bremerhaven, West Germany, They flew a toh low-level formation out over the North See Or board were 1,500 paratroops from the US 11th Airborne Division based at Stuttgart, West Gemany. A single C-119 arrived 15 minutes ahead of the main formation. Thirteen men from the 322nd AD Combat Control Team iumned with 300 lb of radar radio, and other community tions equipment. The Combat Control Tean set up immediately and began relavire weather, wind, and terrain information to the incoming force. Within minutes the sky was filled with paratroops. This airborne assail sent the Blue Forces into a full retreat.

Flood Relief During early February 1953, Holland wa

struck by the most disastrous flood in model history. The worst North Sea storm in 250 year had laid to waste 500,000 acres of farmland During the second day the Dutch Army, Nav. Government School of Aviation, and KLM Road Dutch Airlines began rescue operations. Onthe following day. Allied forces arrived with over 260 aircraft to participate in this humanitaria



operation, C-119s from the 41st TCS, 317th IDW flew in the operations. They dropped summers sand back while flying formation wth KLM's C-47s. Crews on the ground eagerly swited the bags so that they could fill them to senthe fooding. In some instances filled sand has were dropped directly on the dikes souring only some rearrangement by the ground parties. Inflated life rafts were also proped to the stranded people. Parcels of head were dropped from extremely low altitides. On 5 February, 1,178 people were resgued. By the end of the operation, 2,200 lives

Mid-Air Collision During the late afternoon of 15 May 1953, a fornation of 18 C-119s from the 60th TCG, 10th TOS based at Rhein, Main, was near the nity of Mirhelm some 12 miles from Mannheim shie participating in a fly-by for General of the Any Dwight D Eisenhower on his departure as Commander, Supreme Allied Headquartersfunne (SHAPE). A reporter from the Stars and Stiges newspaper reported the incident. The Ring Boxcars were at an altitude of 5.000ft. A lumation of 12 F-84E Thunderjets from the Wh Fighter Romber Wing stationed at Bitbut, was fiving above the C-119s around 1700. tours. Suddenly one of the F-84s fell out of the breaton and heartest for the C-119s. The E-84 muck one C-119 head on and careened into a wood transport. One of the C-119s crashed matemer's field, making a 15ft-deep crater. It least two crewmen who had parachuted to the C-119 were taken to the local hospital #Winhelm for treatment, as was the fighter pist. At least two of the personnel aboard the tersport perished.

his profile shot reveals the markings on C-119-G-75-FA, sin 51-9252, assigned to the 47th BG It lass Flight at RAF Sculthorpe. This picture sis taken at RAF Greenham Common in May 105. The aircraft displays its black-edged fin tips and wedges emanating from the 47th BG inignia on the nose. Via MSgt D W Menard

A US Army officer and his leep driver were in the vicinity and described the event. One formation of C-119s came out of the east and circled to the north, then around to the east. A second formation of C-119s came out of the east and turned south. The flight of jets anneared from the east about 20 seconds later two echelons of fighters pulled up and over the of the F-84s scrambled in all directions. One of the lets hit two C-119s in a cell of three, damaging one and causing another to burst into flames and crash. Plumes of black smoke followed the stricken C-119 and E-84 to the ground, C-119s s/n 51-8235 and 51-8242 were lost. Three of the crew members aboard these

aircraft died A further consequence of this incident was that the remaining C-119G-FA sin 51-8259 returned to Rhein-Main with a square hole aft of the fuselage nose on the left side and ahead of the large drop window, and a rectangular hole beneath the nose number. The blue nose on the C-119 indicated that it was from the 60th TCW, 10th TCS

Shin 53-7845 was taxvion past a C-124 at Traub AR. France in July 1959. Note the down elevator and extended flans. MSot D W Manard

Another Major Accident

The 60th TCW experienced another major accident on 11 August 1955, when a pair of C-119s from the 10th TCS collided over West Germany. Two brand new C-119s, s/n 53-3222 and 53-7841, collided while flying formation, result. ing in the loss of 66 men - 11 aircrew and 55 Army engineers. As a result of this accident, the Air Force initiated a policy that transport aircraft cannot fly in close formation, except in wartime. unless the passengers are airborne personnel equipped with parachutes.

322nd Air Division (AD)

The 322nd Air Division (Combat Carno) was activated at Wiesbaden AB. West Germany on 1 March 1954, and relocated to Ramstein AB. West Germany on 22 March 1954. The heartquarters was again moved to Evreux-Fauville AB. France, on 12 August 1965. During this time frame the 322nd AD was assigned to the United States Air Forces in Europe (LISAEE) C-119s were assigned to the unit between 1954 and 1958 The mission of the 322nd AD was to airlift

personnel, cargo, and mail within USAFE. With the incention of the intra-theater Air I pointing Service (ALS), instituted by Lt Gen Tunner, the air movement of high priority cargo was assumed by the 322nd AD. Initially these operations were conducted within France and Germany. When MATS withdrew its intra-theater airlift operation in May 1954, the 322nd AD assumed operations in an area exceeding that of the entire United States. The 322nd AD supported numerous humanitarian aid missions to Iran, Morocco, Pakistan, and Turkey, in addition to performing their routine ALS mission. In Project Ball-Hai, the 322nd AD provided aidiff of French troops from bases in France to Indochina.





a pressurized MC-131 Samaritan to fly the mission. However, a C-119 was pressed into service and an ambulance, replete with patient and medical team, flew the mission. There was sufficient oxygen aboard the aircraft to support the nations during the flight. The operations tempo for the troop carrier

units continued to rise. In addition to flying the ALS routes, they were tasked with providing airlift for paratroop training by the US Seventh Army in Europe, and the British airborne forces in England. To augment the troop carrier units stationed in Europe, C-119s from rotational squadrons deployed from the ZI.

When tactical fighter units deployed to Wheelus AB. Libva for gunnery training, C-119s from the 322nd AD flew spare parts, ammunition, and ground support equipment from the various USAFF bases. As many as 12-15 Flying Boxcars were employed for each fighter deployment. These missions averaged nine hours in length, making for extremely long crew duty days.

Operation Blue Bat

Communist-backed insurrections flourished in Third World countries during the Cold War. Lebanon was just another example during these times. The political instability in the country lead to armed rebellion in May 1958 when well-equipped Muslim rebels took control of much of the country and demanded removal of Camile Chamoun, the Christian President, The situation turned into a stalemate when Chamoun refused to resign. The Iraqi government was overthrown on 14 July, leading President Chamoun to call immediately for military assistance from Britain, France, and the United States Several months earlier the United States stated that it would come to the aid of any nation asking for assistance to quell armed aggression. When President Chamoun asked

mont AB. Erance, there was no time to disnatch United States did not want to lose any Allied nation to Communism. Under the codename Operation Blue Rat President Dwinht D Fisenhower ordered the US Sixth Fleet to land US Marines in Lehanon at 1500 hours the next day.

It must have been quite a spectacle to see the Marines make an amphibious assault on the hearbee of Reinst amidst a hear of hikiniclad swimmers! Shortly thereafter the Marines had secured the Beirut International Airport. and the city on the following day. They met no

On 15 July the 322nd AD directed that some C-124s and 32 C-130s from the 317th TCW stationed at Evreux-Fauville AB. France: and 19 C-119s from the 60th TCW based at Dreux AB. France fly to Fürstenfeldbruck and Frding ABs in West Germany. On the following day the began airlifting the US Army's Task Force Alpha, consisting of 1,749 paratroops and their equipment from there to Adana, Turkey. Task Force Aloba was ready to deploy on 17 July. Congestion on the airfield in Beirut kept the troops from arriving until 19 July, Task Force Brawn remained on 24-hour elect in West Germany while the support personnel in Task Force Charlie followed directly behind Task Force Alpha. During this 12-day deployment. aircraft of the 322nd AD flew 418 accident-free

During the first two weeks of August, aircraft from the 322nd AD airlifted Task Force Delta to the theater. In this deployment, 4,411 support personnel and an Honest John missile battery were brought to Lebanon. At the conclusion of this last major airlift for Operation Blue Bat, the 322nd AD had accrued 13,997 flying hours and airlifted more than 8,200 tons without incident.

Concurrently, TAC deployed F-100 Super Sabres from the ZI, with the initial package arriving in 12% hours. A TAC reconnaissance wing was also deployed from the ZI. In addition, a pair of ZI-based MATS troop carrier wings

These three C-119CF-70-FAs were assigned to the 47th RG (M). On the left is the nose of six 51-8253, showing the scars from its former rose number. In the center is s/n 51-8265. To the risk was sin 51-8247, whit the black-edged white fir strines and group insignia on the nose. J Throil

equipped with C-130s participated in the airlf. Operation Rive Bat was concluded on 3 October 1958. Lessons learned during the operation revealed inadequacies in the ount battle plans, and paved the way for the Connosite Air Strike Force and today's Air Fined tionary Force. Participants in Operation State Bat were eligible for the Armed Forces Expedtionary Merial and the units were awarded by Armed Forces Expeditionary Streamer.

End of an Era

Funding became tight and by the end of 1961 LISAFE offorts were markedly reduced accord inply. This was the C-119 drawdown schedul in Europe:

Date	Unit	Base
14 Jul 1952	433rd TCW	Phein-Main AB, West Gerra
8 Jul 1957	465th TCW	Evreux Fauville AB, France
25 Sep 1958	60th TCW	Dreux AB, France
25 Sep 1958	317th TCW	Evreux Fauville AB, France
8 Jan 1961	322nd AD	Dreux AB, France

OVERVIEW

C-119s from the troop carrier units in Euto performed vecman service for USAFE's tado units and other NATO forces, and humanitare relief missions. Dedicated ground crews at support personnel worked around the close keep the aircraft flying. The aircrews made in aircraft perform any time of the day or not during challenging European weather contions, all while complying with a myriad of its national regulations. scanned

Zone of Interior C-119 Operations

lacid Air Command (TAC) had eight troop user groups equipped with C-119 within the barefittenion (20) between 1949 and 1988. To the Dool set the energing requirements of the Cold set Granges, it should be noted that during sproof there was a transition from group to set, White the group was the operational unit is compensed to soo certain expendence in a compensed to soo certain expendence in a compensed to soo certain expendence in a compensed to soo certain expendence in some soon of the compensed to the control group, as the balance of the wing's cryganizations considerate expensed administrative and reheavy procedule recognised administrative and reheavy

Tactical Air Command (TAC) had eight troop parier groups equipped with C-119s within the Zer of Interior (ZI) between 1949 and 1958. These are shown in the table on this page.

58th Troop Carrier Group

sing the summer of 1953, the 64th Troop er Goup (TGG) transitioned from the C-82 to C-118. By September, the conversion scription. The group few 30 missions duracyples. The group few 30 missions duracyples are sufficiently only the september of the september of

person Logisativ was connucted between year of Seglethere 1953, and involved the aid delety of equipment and supplies to AR. General During Operation year the 64th TCO used C-118th to fly seasons and drop over 4,000 tons of materseous such cap over 4,000 tons of expansion continued to the commander of seasons of the commander of 1850th Ar. Base Group at Thate, with seasons for the commanders of the times Ar. Command, TAC, Eighteenth Air read to 96th TCO.

Islamury and 21 July 1953, the IDG few 919 sorties, accruing 3,826:30 legitous. During this period the group transsord 3,522 passengers over 1,527:419 passper rises. A foot of 4,962 paratrops were to 50,271 air miles. In addition, the unit permes fire havy equipment drops totaling at tors, and another 40 tons of cargo were cest. This was all part of the prougs train-

SHIF-36-FA, s.in 52-3137, from the 464th TCG was its upper surface markings and Insignia lid Actic trim as it drones along. F D Horkey

TAC's TCGs equipped with C-119s within the Zone of Interior 1949-1958

Unit	Base	Dates	Remarks
64th TOG	Donaldson AFB, SC	30 Nov 1963 to 21 Jul 1964	Inactivated
313th TCG	Mitchel AFB, NY	1 Feb 1953 to 2 Oct 1953	Moved
	Sewart AFB, TN	2 Oct 1953 to 8 Jun 1955	Inactivated
314th TCG	Smyrna/Sewart AFB, TN	Oct 1949 to 1957	Relocated to Ashiva AB. Japan
316th TCG	Smyrna/Sewart AFB, TN	1952 to 15 Nov 1954	Relocated to Ashiya AB, Japan
443rd TOG	Donaldson AFB, SC	Feb 1952 to 1 Feb 1953	Inactivated
463rd TOG	Memphis Mun Apt, TN	16 Jan 1953 to 24 Aug 1954	Moved
	Ardmore AFB, OK	24 Aug 1954 to 25 Sep 1957	Group inactivated. Wing transitioned to C-123s & C-130:
464th TCG	Lawson AFB, GA	1 Feb 1953-16 Feb 1954	Moved.
	Pope AFB, NC	16 Feb 1954 to 11 Nov 1958	Group inactivated. Wing transitioned into C-123s in 1965

1 Feb 1953 to Nov 1953

ing and higher headquarters-directed missions during this period. During TACAIR 54-7, the 64th TCG sup-

ported the 464th TCG between 26 and 30 April 1954. The 64th flew 192 sorties, dropped 365.8 tons of heavy equipment. An additional 502.77 tons of cargo and 347 military personnel were also pitified.

Eighteenth Air Force

465th TCG Donaldson AFB. SC

Headquarters USAF established the Eighteenth Air Force (Troop Carrier) on 7 March 1951. It was organized and activated at Donaldson AFB, SC on 28 March 1951, and assigned to TAC. Maj Gen Robert W Douglass Jr, was the first commander. It was then redesingset of Eighteenth Air Force on 26 June 1951.

The Eighteenth Air Force subsequently gained other combat units in addition to troop carrier wings. Headquarters Eighteenth Air Force assumed to Waco, TX on 1 September 1957, then on 1 January 1958, the Twelfth Air Force absorbed all of the resources of the Eighteenth Air Force.

Relocated to Toul Rosières AB. France

The table on the following page shows the C-119-equipped troop carrier wings which reported to the Eighteenth Air Force:

314th Troop Carrier Wing

After World War Two, the 314th TCG operated C-47s from Albrook Field and Curundu Heights in the Canal Zone until October 1948. During this period the group was assigned to the



C-119-equipped TCWs reporting to the Eighteenth Air Force

1 Feb 1953 to 21 Sep 1953

21 Sep 1953 to 1 Sep 1957

25 Aug 1953 to 1 Apr 1954

Wing	Base	Dates
313th TCW	Mitchel AFB, NY	1 Feb to 25 Aug 1953
314th TCW	Sewart AFB, TN	1 Jun 1951 to 1 Sep 1957
443rd TCW	Donaldson AFB, SC	1 Jun 1951 to 8 Jan 1953
456th TOW	Miami Int'l Apt, FL	1 Dec 1952 to 25 Jul 1953
	Charleston AFB, SC	25 Jul 1953 to 10 Nov 1955
	Shirio AB, Japan	10 Nov 1955 to 10 May 1956
	Ardmore AFB, OK	25 May to 9 Jul 1956
463rd TCW	Sewart AFB, TN	16 Jan 1956 to 1 Sep 1957

464th TCW | Lawson AFR GA

465th TCW Mitchel AFB, NY

Pope AFR NC

Inactivated. Replaced by the 469th TCW Transferred to Mrth AF Transferred to Mrth Relocated to Chafeston AFB, SC. Trained Indian AF crews in the C+119 betw and Jan 1954. Attached to 1st AD (Meteori

Bamarko

Trained india PE crews in the C-119 between Aug 1953 and Jan 1954. Attached to 1st AD (Meteorological Survey) SAC 22 Apr 1955 to 28 Mar 1966. Aircraft and personnel dispersed to other units. Six aircraft and crews transferred to AF Systems Command.

Transitioned to some C-123s in 1956 and C-130s in 1967. Began transition into C-123 in 1955. Continued with C-119s until 1958. Transferred Twelfth AF and attached to 322nd AD (ISAFF) at Trail Problems AR France.



Above: Paratroops resting in the sun prior to boarding C-119G-1-FA, s/n 52-5899, assigned to the 464th TCG. F D Horkey

Bition: The paratroops saddled up and headed to the forward door of alreraft is in 55-990. The 464th insignia is applied to the left side of the nose. The green trin indicate that the alreraft is assigned to the 72th TCS, however the replacement yellow prop hold came from the 77th TCS, follower the project of the 77th TCS, however the replacement yellow prop hold came from the 77th TCS, follow how the paratroops shiftley walked through the prop are T-truly a safety yieldallon, for one never knows the there is sufficient residual heal in the cylinders and adequate heat to cause ignition resulting in a many rotation of the blades! If Division is sufficient residual heal in the cylinders and adequate heat to cause ignition resulting in a



ignated the 314th Troop Carrier Wing (Heav). and operated C-54 Skymasters during the Berlin Airlift. The unit was detached to USAFE between 1 and 29 July 1948. Its tactical units were the 20th and 334th TCSs. The 314th TCW was assigned to the Airlift Task Force (Pms) signal) between 29 July and 19 October 1948. The squadrons were replaced by the 50th and her 1949. The inactivated 61st TCS was rades. innated the 61st Troop Carrier Squadrop on 20 Sentember 1949, and activated within the 314th TCG on 17 October 1949. The group was redesignated 314th TCG (Medium), and assigned to the newly formed 314th Troop Car. rier Winn (TCW) at Smyrna AFR GA on 1 November 1948. C-82s entered the units inventory at this time.

The 314th TCW replaced its C-82 Packet with C-119B Plying Boxcars during Octobe 1949. The wing had a full schedule the following year while learning to operate and maintain the new aircraft.

C-119s from the 314th TCG dropped 25th

paratroops from the 82nd Airborne Divisor during the night of 13 March 1949. This was one of the largest night airforps in history. Using innovative techniques, C-119s ton the 314th TCG worked in conjunction with the Army's Artillery School at Fort Sill, OK in experiments and exercises for airdropping feld artillery pickee. This exercise was successful.

completed on 18 March 1950. Exercise Swarmer

A giant joint ArmyUSAF exercise was occupied on ArmyUSAF exercise was occupied on the Ordination, South Carela and Virginia between 24 And and 5 May 50 Mile the units had barband individually in the past, this was the first time they all participate in the same exercise. In what was married bricks Swammer, parathologia were dispipate size an animeda, then expand to permitten ports to land with reinforcing toop. The form of the ground were to be recognised by a contract of the product exercise to the recognised of an all wealthmen capability coins called for all wealthmen capability coins called for all wealthmen capability.

The reason behind Exercise Swamer as that many people within the Pentagon belies that the only traditional method for about through an invasion via beachheads, was to obsolete because of atomic bombs. Those an air sense, believed that airheads could be an air sense, believed that airheads could be the property of the country of the country of the through the country of the country of the through the country of the country of the through through the through through the through the through through through the through through through the through through through the through through through through the through through through the through through through through the through the through the through the through the through th

chosen with more flexibility than beachest. The overall exercise was under the ormand of LI Gen Lauris Norstad, USAF is Chief of Staff for Operations, while Brig Sir Willard R Wolfinbarger, Tactical Air Disor. Continental Air Command Commarks headed the Air Task Force for Exercise.

C-119s from the 314th TCG dropped sin 4,000 paratroops during Exercise Swamer's addition, they successfully airdropped 15th artillery pieces for the first time in history. scanned for the fast firms, C.-1169 we've employed by the pip 24-bit office to that we've fully produced the pip 24-bit office firms and the pip 24-bit office of the firm pincernel we've able to drive the furuse, of the first availt and head for the frost. Whereas MIS C47s and C-54s were only capable or read in a C-118. Army field commanders were read in a C-118. Army field commanders were retermented with bring their ground troops south the aircritt after they landed. This led to the date of harding times demonstrate also in buy buckmasters be responsible for the land of the firms of the commander we've for the second of the firms of the firms of the firms of the land of the firms of the firms of the firms of the firms of the land of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the second of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of the firms of the firms of the firms of the second of the firms of th

Exercise Sawarner proved that troop carrier and strategic air transport elements could work in concert. Each complemented the other with its capabilities. That said, much work was ahead to resolve a number of deficiencies in command and control, and distribution of deficiency in the detail of the provided definition of deficiency.

Sewart Air Force Base

On 25 March 1950, Smyrna AFB, TN was seamed Sewart AFB in honor of Tennesseetom Mej Allen J Sewart Jr, who was killed in action in the Pacific during World War Two. For the dedication ceremony. C-119s from the

314h TCG performed a flyover. Smyrra/Sewart AFB remained home for the 314h TCW from 1 November 1948 to about 15 January 1966. The base also was home to the 358h TCW between 4 November 1949 and 15

November 1954. Kerean War Mobilization

while the 314th TCW remained at Sewart AFB, the fying organizations — 314th TCG and its 5th, 61st and 62th CTS departed for Ashiya 83 Japan on 4 September 1950. The 37th TCS ton the 316th TCG joined the 314th TCG at Awar

When the 314th TCG was assigned to FEAF Toop Carrier Command it had the strength stown in this table.

28	Officers	Airmen
Hadquaters	13	28
SIM TOS	67	155
Bu TCS	67	155
End TCS	43	138
PhTCS	43	138
Table 1	233	614

bestors of the above units are covered in Chapter 7 describtip te Kosen War.

OrtHG-36-FA, s/n 52-2997, from the 773rd TCS.

83 TCC, speers to have been undergoing part disfect campaign propeller inspection program. The dolly holds two props. Note the buckets on the dolly that held the prop hubs. E T Allon

C119F, ain 51-6008, from the 773rd TCS, 463 106, is undergoing a complete change of the is I segine. The mobile crane is used to lift the 8-235 (power egg! from its transportation doily adswing it into place for installation.

314th TCW at Sewart AFB

Throughout the Korean War, the 314th TCW remained at Sewart AFB, TN. While its three squadrons were in Japan, the wing operated with the 36th and 75th TCSs that remained at

Sewart AFB during this period. The wing flew a variety of aircraft as it developed new concepts for airborne and airland assault missions. These aircraft were assigned to the 314th TCM from 14th and later.

C-82	1948 to 1951	YH-12	1951
C-47	1948 to 1953	H-19	1952 to 1955
OG-15	1949 to 1951	C-46	1952
O3-18	1949 to 1951	L-5	1952 to 1953
C-119	1949 to 1957	L-16	1952 to 1953
C-45	1949 to 1951	L-20	1952 to 1954
	1954 to 1955	H-21	1955 to 1959
TC-46	1950	C-123	1956 to 1957
YC-122	1950 to 1954	C-130	1956 to Presen

The 321st TCS was reactivated and assigned to the 314th TCW on 8 June 1955

Exercise Southern Pine A joint Army/Air Force training maneuver.

known as Exercise Southern Prine, was conducted in the vicinity of Fort Bragg, NC between 9 July and 27 August 1951. Arifit operations were performed by the Troop Carrier Command (Prov), which had been activated on 1 March 1951. expressly for this experies.

The 2nd Forward Medical Air Esquastion Flight was assigned to the Eighteen Air Force and attached to the 314th TOW on 6, May, Comand attached to the 314th TOW on 6, May, Command and control for the USAF medical units participating in Exercise Southern Pine was provided by the Tomop Carrier Medical Group (Prov) which was activated at Lauribruty-Maxon, NC on 34 Agust. The Frop Carrier Medical Group (Prov) moved to Densidston AFB, 8C on Afficial 44 Sostember and was discontrated on 25







November 1961. Ine 1st Aeromedical Group was activated at Donaldson on 26 November 1961, and attached to the 375th TCW; while its operational control remained with the Commanding General, Eighteenth Air Force.

The Air Cargo Supply Squadron (Prov) was organized on 20 July 1951, an an experimental unit to train personnel in aircraft loading techniques for Essercial Southern Pina. On 1 November 1951, the unit was redesignated the Aerial Port Operations Squadron (Prov). The unit was attached to the 443rd TCW for control, administration, and logistical support. These prodecessors resulted in the activation of the 1st Aerial Port Operations Squadron at Donaldton AFB on 11 January 1952.

Operation Snowfall On 4 December 1951, the Troop Carrier Air

Division (Prov) was organized at Mitchel AFB, NY for supervision of Operation Snowfall that was a joint Army/Air Force servicise conducted in the Camp Drum area of New York state. C-119s from the 435th and 514th TCWs, along with C-124s from the 62nd TCW sirtling with C-124s from the 62nd TCW sirtling to 150 from the 62nd T

dropped 6,400 paratroops. Operation Snowfal/ was conducted in January and February 1952.

Operation Snow Shoe II

Snow Shoe II, was conducted within Northeast Air Command and Alaska between March and May 1952. C-119s from the 316th and 435th TCWs and C-124s from the 62nd TCW participated in airlifting Army personnel and equip-

Exercise Long Horn The most extensive post-World War Two Army-

Air Force joint maneuver to date, known as Exercise Long Pion, was conducted between 25 March and 11 April 1952. The exercise involved the airlife of the 31st Indarry Division from Fort Jackson, SC to Temple, TX. Eight of the teerth Air Force flew 8,941 troops and 520.3 teerth pion of the tree of the state of the tree of the state of the state of the completion of the maneuver, the division was saidfed to Camp Atthroaty. Indian airlife to Camp Atthroaty. Indian airlife to Camp Atthroaty. Indians.



C-119G-1-FA, s/n 51-8090, was flown by the 313th TCG, stationed at Sewart AFB, TN. The speciousness of the cockpit is readily discernible in this view. Vis MSqt D W Menad

Exercise Test Drop

In order to determine if World War Two troop carrier techniques were still annicable in the nost-war era an extensive test nonem known as Exercise Test Drop was conducted between June 1952 and July 1953, Introduction of the C-119 and C-124 promoted the fall sturby that included evaluation of formations navigational aids, the Joint Operations Canter, use of the Chase C-122 Avitruc (forerung) of the Fairchild C-123 Provider), and evalution of drop techniques. A series of 10 tests was conducted Evaluation of the results evolved into the Computed Air Release Point (CARP) system of paradropping personnel and equipment. The CARP system was offcially adopted by the Fighteenth Air Forcest 8 May 1953.

USAFE Support Retween 19 October 1954 and 3 May 1965

the 776th TCS, 464th TCW was deployed to Rhein-Main AB, Germany to support the 322nd AD. They were followed by the 778th TCS that deployed between 25 April and 8 November 1955. Durling October 1955, the 62nd TS

deployed 12 C-119s to Dreux AB, France to support USAFE operations for a period of as months. The detachment was under the command of Lt Col William F Kellerher.

FEAF Ferry Operations During August 1952 crews from both the 62td.

and 314th TCWs supported MATS by ferring C-119s to FEAF for the Korean War. During May 1963, under Operation Boxes crews from the 64th and 465th TCWs ferrer

C-119s to Japan from the ZI and returned we weary Flying Boxcars from Japan to repi depots within the ZI. 1952-1956

Troop Carrier Support Missions

Operation Redbird was conducted between and 31 October 1952, using C-119s from the 514th and 516th TCWs and C-124s from the 62nd TCW. During this operation, the aircst moved 693,283 ib of cargo and 1,242 personel when SAC 55th SRW moved from Rane AFB, Puerto Rico to Forbes AFB, KS.

These C-198 from the Eighteenth AF Force were engaged in a heavy equipment drep with participating in TACARI 86-7. Various stagest the extraction process may be seen in this picture. Flying in a tight we formation, these circumstances are seen in the picture. Flying in a tight we formation, the picture of the control of the picture of the control of the picture of

Another joint Army/Air Force exercise was conducted between 15 January and 4 February 1853 in the Camp Drum area of upstate New 1965. Bubbed Exercise Coldspot, aircraft from the Ephteenth Air Force dropped over 9,000 castnooss and airlifted another 10,931 for the

TADAR 54-2, named Exercise Ski Jump, was conducted between 4 and 26 March 1954. Three C-119s from the 465/0 TOW airchoped 30 tons of equipment to the 511th Regimental Combal Team (RCT) of the 11th Airborne Division during their cold weather maneuvers at

Camp Hale, CO. Beninning on 20 April 1954 TACAIR 54.7 spened with C-124s from the 62nd and 64th TCA's airlifting members of the 145th RCT from Awandria, LA to Pope AFB, NC as a prejude to the Army's Operation Flashburn - the Army's Intainulated atomic maneuver. All units of the Eghteenth Air Force were committed to TACAR 54-7 that was designed to test and train Istartical air units in all phases of operations The exercise included 80 C-124s and 500 C119s for dropping 9,000 paratroops from the 82nd Airborne Division at Fort Brago, Crews from the Einhteenth Air Force flow a total of 1453 aerial resupply and troop carrier sorties During Operation Spearhead, which was TACAIR 54-8 conducted between 3 and 19 May 1964, 17 C-119s from the 463rd TCW airdropped 99 tons of carno at Fort Hond to the ts Amored Division as part of a joint Army/Air

Operation Shockwave was conducted steven 2 and 11 December 1954, when C195 from the 456th and 457 T CWs sliftled 356 loss of equipment and 2,500 infantrymen ton the 256th RCT from Ramey AFB to NAS Rosevelt Roads in Puerto Ricco.

Buring Rebrusary 1955, four C-119s from the Selfst TOW participated in a series of atomic less in Newada during Operation Trappor. Brakens 1 November & Docember 1952, Brakens 1 November & Docember 1952, situps Armylikr Force maneuver in Louisiana. Latga Armylikr Force maneuver in Louisiana. 142 base that was home to the 368th TPW. A 145 base that was home to the 368th TPW. A Latga Company of the Selfst TPW. A 145 base that was home to the 368th TPW

hase C-119s from the 314th TCG were deployed to England AFB, LA for Operation layerush. Paratroops were loaded into the C119s for an airdrop. Beneath the tail of C-119-

S48, sn S3-3215, is an airborne instructor, will be red hat, who was checking the peachte harmess on one of the troops. Three IMF flight crew members ait in their blue flight als hat were extant for the period. Behind the sween was a peir of clamshell doors from the

soult in the foreground, that is being rigged to a keny equipment drop. USAF he may at Elmendorf AFB, AK was packed at 35 Fying Boxcars from the 314th TCG thas any articipating in Exercise Snowbird when historaphic on 23. January 1955. The aircreft historaphic of the aircreft historaphic historaphic of the aircreft historaphic of the aircreft historaphic of

and a Enterior for U. No. 19 per spectrum and a Fighing Boxcars from the 314th TCG that was participating in Exercise Snowbird when hottprophed on 23 January 1995. The alcreaft to brought throops from the 503rd RCT from InCampbell, KY for this joint Army/Air Force witer maneuver. USAF JAAFIO-55-18

Arrow was conducted between 17 and 19 November 1956. C-124s from the 61st TCG airtitled some 14,000 Army troops from Fort Riley, KS to six forward operating locations where C-119s and C-123s continued the lift to areas

ALASKAN OPERATIONS

A number of C-82 and C-119 units went TDY to Alaska in support of peartroop training openations. In addition, some units provided combat support to the Alaskan Art Command, Between 1984 and 1950, also 97 higher Wing a Ementical Command of the Command of the squadrons provide combat support. Three of the squadrons; the 487, Ph. and 881 TCSs, came from the 62nd TCG at McChord AFB, WA. The 37th TCS came from the 516th TCG at Exercise Warm Wind was conducted between 27 October and 10 December 1952. C-119s from the 435th TCW, augmented by the 64th, 314th, and 433rd TCWs, accomplished one of the largest peacetime airliffs to date when they flew the entire 503rd RCT to Alaska. During this exercise both airlift and airfor missions of personnel and equipment

were conducted.

TACAIR 5-5 a was designated Exercise

Snowbrd and was designed to test the combat

capability of troop carrier and althorner units

during extremely cold conditions in January

1955. A total of 50 C-124s from the 62nd and

63rd TCWs and 100 C-119s from the 313th,

314th, and 456th TCWs were to Alaska during

the dead of winter where they dropped para-

Exercise Ember Dawn was conducted in the summer of 1969, C-119s from the 903rd and







934th TAG and the 433rd TAW, Air Force Reserve participated.

Potent Lesson During one of the early deployments to Alaska. a severe lesson in airplane operations was learned. The C-119 was equipped with an oil diluter system for use during extremely low temperatures. Basically, the system introduced aviation gasoline into the oil tanks so as to reduce its viscosity. In practice, this system was rarely used. The severe temperatures encountered in Alaska proved the need for this system: however, it was to be employed at specified intervals. During this deployment five aircraft were lost due to engine failures, these being caused by severe engine overheating. Investigation revealed that when the oil diluter system was not consistently employed, the oil lines tended to coke up because of slow oil movement and the high temperatures encountered during normal engine operation. When the system was needed on this particular mission, the aviation casoline not only diluted the oil in the tanks: it caused the caked-on oil to break away from their lines and choking the oil flow to the engines, resulting in severe overtemperatures. A directive was issued which required flight crews to use the oil diluter system regularly and the problem was corrected.

Assigned C-119s

The only C-119 unit assigned to Alaskan Air Command was the 5039th Air Transport Squadron (ATS) based at Elmendorf AFB. This unit operated these aircraft between July 1955 and late 1957, when the C-123 was introduced. During the last six months of 1955, after of the eventual ten C-19s were in the unit. A year of schedule revisions and depot modifications resulted in the first two aircraft arriving in July. Three more came in August and one each in November and

December. A shortage of parts and a lock of qualified pilots prevented the C-191s stomy constabler Q-reverted the C-191s stomy taking over the combat support role from the vinerable C-47. The 500th ATS experienced low in-comtrained to the prevented of the C-191s of the prevented to the company of the prevented of the C-191s of the prevented to the company of the prevented of the C-191s of the prevented to the company of the prevented to the C-191s of the prevented to prevented to the prevented to prevented prevented to prevented to prevented prevented to prevented prevented to prevented preve

	Jul	Aug	Sep	Oct	Nov	Dec
Aircraft on hand	2	5	5	5	7	7
Hours available	483	1,675	3,300	3,720	4,464	5,177
Hours in-commission	0	787	1,222	1,426	1,375	1,577
Hours flown	23	67	141	128	152	138
In-Commission rate	0	47%	37%	38%	31%	30%
Lhilization rate	0	87%	11.9%	9.0%	11.00	0.0%

By 1 March 1956, the entire complement of ten C-119s was in the inventory of the 5039th ATS. With the improvement in the weather, the utilization rate increased and they achieved 338 of the 400-hour objective. As the parts shortages and orew deficiencies were overcome, the in-commission rate rose to 60% and

During Exercise Snowbird, this 314th TCQ aircraft stopped at Whitehorae, Yukon Territor, Retueling a C-119 in the Arctic was no easy task. Access to the top of the aircraft was gained through the astrodome. The crewman standing on the fuselage is holding a carnera. Snow blowers were constantly clearing the airfaid. USAF AACPH-65-12

During the second half of 1956, operation of the C-119s was reasonable. These operational statistics reveal the performance of the 3039h ATS between January-June and July-December 1956:

Dates	In-Commission Rate (Average)		Utilization of Acft Assigne
Jan-Jun	52.00%	276 hours	65 hours
Jul-Dec	47.0%*	310 hours	97 hours

during the month of December.

The 5039th ATS provided logistical supports remote radar sites. In addition, they provided vecman service in bringing POL to land-locket

plied by water transportation.
Even though the performance of the C-115 improved in Alaska, it was not the proper cap airplane for the theater. It was marginal in mountain performance (engine-out) and operation from gravel strips. The first C-128 it replace the C-118 airplane for 20 October 550.

OVERVIEW

C-119s assigned to units of the Eighteerth & Force proved their worth in joint exercises with e Army and developing ariff(tairdop toniques for both cargo and personnel. Innovative personnel within the command proved effects methods for such operations in the future.

These four Flying Boxcars were performing a run-up prior to taking off for the Talkeetna au for a mass airdrop during Exercise Snowbid. USAF JAAFIO 55-95



Miscellaneous USAF Packet & Boxcar Operations

is addition to providing tactical airlift, troop cares support, and humanitarian effort, Oi19 Fiying Boxcars continued in operation with the Regular Air Force in the Far East Air Forces long after the Korean War, and seved as base flight aircraft with several commands, Examples of these various opermons are provided.

HUMANITARIAN AIRLIFT OPERATIONS

Indicately the military is known for its coming operators, however its training and expense as also employed for humanitasameous. With military and provided to the unable of the control of the State Operator to the three American influence of the part of the world. Direct use of humanitaies or come at the direction of the State Operator to further American influence in the world. Direct use of humanitary and the world. Direct use of humanimia with control of the control of the provided of the control of the control years. And/or reduce the rest within a some years.

Bith to C&P Packets and C-119 Flying Bossserve engloyed in numerous direction from server to the control of the control of the residence of the Cetter and C-119s from the Reglar Force, Ar National Guard, and Air Forser until Sew the humanitation missions sen in the accompanying table above. Such approprion of these missions being flown in C-82s and C-119s is a testament to basis coiles of the aircraft, and the declaracation and operational capabilities of trush involved.

FAR EAST AIR FORCES

the the Korean War, two C-119-equipped too carrier wings remained assigned to the 315th Air Division (Combat Cargo). Both the 315th Troop Carrier Wing (TCW) and 61d TCW were stationed at Tachikawa AB in Japa. The latter had more units assigned/mated than any other wing, as depicted in

The 483rd TCW provided training and assists support for the C-119s loaned to accement C-119 from France's Armée de la during the battle for Dien Bien Phu (see Dapter 7).

umanitorian Aidill Constitions flows by C-82e and C-110e

Total and Arms Operations from by C-628 and C-1185				
Location	Period	Total Missions	C-82/C-119 Missions	Percentage
North America	17 Sep 1947 to 2 Mar 1971	47	28	60%
Latin America	16 Jan 1949 to 3 May 1963	18	6	33%
Europe	26 Jun 1948 to Dec 1959	17	10	59%
Africa	Sep 1947 to 1 Mar 1960	9	5	55%
Southwest Asia	Mar 1952 to 19 Dec 1959	10	8	80%
East Asia	Aug 1950 to Sep 1955	7	3	43%
Pacific & Australia	Dec 1951 to 4 Aug 1957	18	6	33%
Total		126	66	52%



C-119G-36-FA, s/n 53-7861, was photographed on landing at Yokota AB, Japan on 17 March 1960. The aircraft was assigned to the 421st TCS, 6102nd ABG. Note the squadron insignal on the vertical tail and the Aussie Rioc zap on the forward fewsleage. 7 Marcazie via D Remington

Major Accident

On 30 March 1986, C+196 S-3156 for the 1817 TICS, 4830 TIV, book of from Ashiya AB, Japan on a routine support mission to Kimpo AB (69), Kimes. The talesoft began at 0744 hours. Rumay 30 (300° heading) was in use hours are support mission to kimpo the properties of the properties o

this flight. In fact, the propellers were locked out of reverse for a period of about six months because several uncommanded instances of the propellers going into reverse, including in

Weather conditions at the time of take off

Celling	600t Broken
Visibility	5 Miles
Wind	NNE at 14 Knots
Temperature	50°
Dew Point	50"
Altimeter Setting	3007
Other Weather Conditions	Bain and Descript Eng



Above: This 48,844 TOV CF -119 was undergoing an engine change in 1958 at Yolota AB, Japan. Note the seria above the U.S. AB FORCE from the TOPO CABIRIEST reading. The main called windows are masked over. In addition to the coor jaments, the main gare doors are removed to afford case of accesstal engine specialist is on a stand version within the No 2 reaction. The three furbovershaper catholics reverse that this was an 3-250 cought. What the No 2 reaction. The three furbovershaper catholics reverse that this was an 3-250 cought. What the No 2 reaction of the No 2





Personnel onboard the aircraft at the time of the accident.

Crew Duty	Organizational Assignment	
Plict	315th AD, 483rd TO 483rd TOG	
Co-pilot	315th AD, 483rd 10 483rd TO3	
	Duty Plict	

Personal ILL Ri

7th Aerial Port Son

The milet briefed the crew prior to take off and included directions on a rejected take-of-Power was applied to the engines and he take-off began normally. At a speed of 70 knots, the right engine torquemeter began fluctuating, then dropped to about two-thirds the normal reading. At this time the plot elected to abort the take-off with about 3.500 of nurway remaining. He began aroling brakes, but there was no discernible slowing of the aircraft. Then the co-pilot began applying brakes to no effect. Next, the pilot attempted to ground loop the aircraft to the right by apply ing full right rudder and brakes. The aircraft was unresponsive. At approximately 2001 from the end of the runway, the pilot called to

came stopped 55ft past the overrun and at the nose was just over the lip of the slope, the rigit gear began to retract.

The aircraft came to rest in a nose-down istude with the cockpit hivisted from the all cabir. The cockpit crew escaped through the navige tor's astrodome, while the passengers egress through the left troop door. There were no pe-

the co-pilot to retract the gear. As the aircst crossed the PSP overrun, the gear began to retract. The nose gear retracted as the aircst cleared the PSP, the nose settled and cortal with the turf caused the nose gear does to depart. The left main gear retracted and the craft dropped on its left side. When the aircst.

These seven C-119s from the 483rd TCW wen photographed on the ramp at Don Museg Airpot during Operation Firm Link on 15 February 188 USAF K7346

C-119C-20-FA, s/n 50-155, was assigned to the 21st TCS, 483rd TCW, when photographed st Tachlikawa AB, Japan in 1957. The alreating the red lighthning boths on the nose and vertral fit. The squadron insignals is applied to the vertical fits. Room: Johnson via Midde DW Menerd

One of several C-82s that were assigned to the All Weather Flying Center based at Clinton County AFB, OH during the mid-1940s. J Vollemck



G119F-KM, ain 51-8146, when shifteenshed in 1956. She was later flown by the USAF Reserves and selfred to MASOC P M Possors

Dunderbirds, only 51-8146 carried the unit paint scheme, A R Krieger



somel injuries: however the aircraft was destroyed at a cost of \$593,922 The DD Form 365F. Weight and Balance

Designoe Form, showed the allowable cross wight for the take-off was 68,000 lb. and the shushla load was 16 832 lb. While weight was rata factor in this accident, it may well have led to the new operating limitations published by the 483rd TCW later that year.

Sw Cooration Limitations Published

Salety was a major consideration to the 483rd DW and on 7 December 1956. Col Marvin W suth wing Director of Operations, issued a ater recription the C-119G Allowable Gross Births nublished on 5 December 1956, and to 483rd TCW Standard Operating Procedure Amber 3. These were replaced by charts and sta published in the flight handbook for the G119G and safety supplements thereto Published data for Normal Limited by Perfor-

mance Maximum Take-off Gross Weights for te G-119 are displayed below:

C-119C	C-119F	C-119G
66,600 lb	72,000 lb	68,300 lb
73,140 lb	77,700 lb	72,700 lb
	66,600 lb	C-119C C-119F 66,600 b 72,000 b 73,140 b 77,700 b

Many the average temperature and dew cont at Tachikawa AB for the past eight years. te \$15th Air Division computed new numbers for from the Islands of Japan and Korea.

For planning purposes, weight limitations for C-119s operating within the 315th AD were divided into these six periods:

Period	Allowable	Gross Weight	
January and February	16,000 lb	69,400 lb	
March and December	15,700 lb	69,100 lb	
April and November	14,600 lb	68,000 lb	
May and October	14,400 lb	67,800 lb	
June and September	12,200 lb	65,600 lb	
July and August	11.100 lb	64.500 lb	

This data was utilized by 483rd TCW mission planners for forecasting future unit operations until the C-119s were removed from the inventory in the theater in 1959.

Operation Firm Link As an outgrowth of the Marshal Plan, the North

Atlantic Treaty Organization (NATO) was formulated on 4 April 1949. A similar origination was created in Southeast Asia, known as the Southeast Asia Treaty Organization (SEATO). This alliance was organized in 1954 to fill the French Indochina (see Chapter 8). It was headquartered in Bangkok, Thailand. The alliance consisted of: Australia, Great Britain, France, New Zealand, Pakistan, the Philippines, Thailand and the United States.

SEATO conducted annual maneuvers utilizing forces of member nations for training and as a show of force to deter Communist insurgency in the region. Between 15-18 February 1956 SEATO conducted Operation Firm Link Designed to demonstrate the mobility and effectiveness of SEATO armed forces in the event of an emergency in Southeast Asia. During this show of force elements of these nations narticinated: Australia Great Britain New Zealand, the Philippines, Thailand, During Operation Firm Link, C-119s and

C-124s from the 315th Air Division (Combat and their equipment from Ashiva AB. Japan to Don Muano Airport in Thailand. They brought in everything from vehicles to field kitchens. While on this denloyment the C-119s performed paratroop and heavy equipment drops. Dionitaries from various SEATO nations were seated in a grandstand where they observed the airdrops. One of these individuals was Brig Gen

AIR DEFENSE COMMAND

In addition to the Douglas C-47 Skytrain and Convair T-29/C-131 Samaritan, Air Defense Command (ADC) used a number of C-119s as support aircraft for their fighter interceptor squadrons throughout the CONUS

the C-119 are the 4440th ADG. Langley AFB. VA: 4600th ABW, Peterson AFB, CO: 4750th ADFW, Yuma AFB, AZ; and the 4750th ADF at



ALL WEATHER ELVING CENTER

The All Weather Flying Center (AWFC) was dedicated to researching flight safety in all sorts of meteorological conditions it developed and tested aircraft and associated equipment under extreme weather conditions. Established at Clinton County AAE Old in June 1945 under the unit moved to Lockbourne AAF, OH in October 1945. On 9 March 1946 the unit returned to Clinton County AAF (later AFB) where it was operated by the All Weather Flying Division of the Air Materiel Command. With the closure of Clinton County AFB, the AWFC moved to Wright-Patterson AFB. OH in October 1949.

The AWFC developed air traffic control and instrument landing equipment and procedures

to permit operations under all types of meteorological conditions. One of their more famous deretorm in which aircraft panetrated thunderstorms to gather operational data using Northrop P-61 Black Widows and F-15 Reporters, During 1948, daily flights utilizing C-54s were made between Clinton County AEB and Andrews Field MD. The C-54's nocknit. windows were covered with colored plastic and the pilot wore glasses that precluded outside vision, thereby simulating instrument conditions on a daily basis. In addition, a R-29 was

The AWFC operated a variety of aircraft, including several C-82s, in the unit's resplendent markings. The C-82s were used for logistical support - bauling radar trailers and

prototype electronic equipment to remote sites for AWFC testing. Some of the sites were Andrews AFB, MD: National Airport DC Pinacastia AER EI - Salfridos AAER MI- set

Known C-82s in the AWEC inventory were 44 22068 and 44 22080

STRATEGIC AIR COMMAND

Strategic Air Command (SAC) operated both C-82s and C-119s that were assigned to varous bomb groups for logistical support. These aircraft were allocated to the base fight ant also served to provide flight time to staff personnel. According to SAC records these arcraft were in service between 1948 and 1962. 1948 11: 1949 4: 1950 4: 1951 4: 1952 4

The larger number of C-82s in SAC's inentory in 1948 may result from the fact that the 7h Geodetic Squadron was assigned to the 55th Strategic Reconnaissance Wing at Ramey AFB. Puerto Rico during this period.

A little-known SAC unit was the East Reconnaissance Group (Provisional) that was employed in the photomapping of Greenland between 25 June 1946 and 27 March 1947 This unit operated one C-82 to haul men and materiel to Ellesmere Island to build a weather station. Using a pair of ski-equipped C-47s and the C-82, the unit delivered 250 tons of care. within two weeks. These aircraft, crewed by inunteers from Shaw Field, SC, landed on ion close to the shore.

SAC also employed some C-119s during the mid-1950s as base support aircraft for haufer the cantankerous R-4360 engines powered their fleet of Convair B-36 Peacemakers, Boing B.50 Superfortresses and Boeing KC# During the famous SAC Bombing and Na

gation Competitions, the C-119s were employed to haul everything including the kitchen sink. The aircraft brought in tool bows for the mechanics, spare parts, field kitches. and the all important motor scooters for load transportation

In addition, SAC utilized an entire wint of C-119s in Project Dreg Net (see Chapter 13)



C-119C-15-FA, s/n 49-159, had the dual nose gear retrofitted. Carrying the SAC Milky Way band, this aircraft was assigned to the 28th BE Ellsworth AFB, SD, between 31 August 1952 and December 1957, Fifteenth Air Force Historian C-119G-84-KM, s/n 53-8072, was assigned to ATC when photographed at Randolph AFB. TE on 28 September 1955. In lieu of the CQ buzz number, the aircraft carried the last two digits of

the tail number on the nose. Note the ATC Insignia with RANDOLPH AFB above on the forward fuselage, G S Williams C-119G-84-KM, s/n 53-8073, was assigned to the 3499th MTD when it was photographed at Chanute AFB, IL, in February 1956.

MSat D W Menard

alfetta (2005

Peter M Bowers built a replica of the Curtiss Ruber and demonstrated the aircraft at a number of airchbows during the late 1950s and any 1900s. On several occasions the aircraft was loaded onto a USAF transport for military airchavs around the country. Here it is being lasted on C-1131-Ja-H-KM S-18-140. P M Bowers

AIR TRAINING COMMAND

All Training Command (ATC) had C-118e singled to several specialized units. The 360m Pict Training Wing, based at Webb AFB, it used the aircraft to train slight crews. Test training michael serial saining wings employed the aircraft as resoutceal airframes for training mechanism. These ATC units operated the C-82s: the 385m TTM, Chanute AFB, IL; 3415th TTM, UniveryAFB, IO; 3496th TTM (Mobile), various tases; and the 3750th TTW, Sheppard AFB, IX.

The Air Force Flight Demonstration Team (flundarbirds) briefly operated three different C-18e as a support aircraft. Only one of these Plying Boxcars had the *Thunderbird* paint strere applied.

AIR SHOW SUPPORT

Two C-82s were known to have served with the name Nose for News — Packet Press Room. The 4F Force would dispatch the aircraft to various ashows for use by traveling media personnel, to man dock cabin was outfitted with tables, data, loths, and thoewriters.

During the 1950s it was not unusual to see a C119 bring in support personnel and equip-

On several occasions famous engineer/ almo Peter M Bowers had his Curtiss Pusher replica aliffed to various airshows across the ounty. There, the jaunity and witty aviator would dazzle the audiences and performers are with his replicated vintage flying machine.

MACA/NASA C-82 Packets

the National Advisory Committee for Aeronautes (NACA)National Aeronautics and Space climistration (NASA) operated C-82A 44-2056 between 31 August 1947 and 7 February 351. The aircraft carried NACA/NASA Fleet urber 107. It operated from the NACA/NASA

Armes Facility at NAS Moffett, CA. In addition to being used as a utility aircraft, this C-82 flew a limited number of gust load research flights. The aircraft was retired to MASDC at Davis-Monthan AFB, AZ. In addition, NACA employed several C-82s

at their Lewis Research Center in Cleveland, OH during the 1950s. One test program involved full-scale crashworthness fire investigations on piston-powered aircraft, while the others dealt with the origin and prevention of crash fires in turbojet aircraft.

In the first series of tests, the crashes were designed to similar to able off accident in which the aircraft failed to become airchorn; stuck an embackment, shearing off the propellers and landing goar; striking trees or poles, rupturing but termis, then siting along the ground to a standalli. In addition to flammability sets, pole-reflects on churmies were also tested. Both C-46 and C-42 arcraft were provided by the USAF for these tests. Water burst on the USAF requirement. The system inconconsided these features:

 Fuel shut-off valve on each firewall and in the tubing between each carburetor metering section and fuel injection nozzle; and an oil shutoff valve on each firewall.

 A storage and plumbing system in each nacelle for discharging carbon dioxide into the diffuser housing of the engine induction system. A storage and plumbing system in each nacelle for spraying a coolant on the hot exhaust collector ring and heat exchangers.
 A switching arrangement for disconnecting the

 A switching arrangement for disconnecting the aircraft batteries and generators from the electrical power system.

The second series of feets were designed to similar tables either lakes of or landing accorders in which there was a high probability of human survival the second of the second of the second of the second of 103 and JFI trubops that were poly non-morrised on a wing. This C-828 were accelerated to a second of accorded Ornels per frough along a second of accorded Ornels per frough along a time numery was arranged to prof the landing per, white a part of poles on each order of wing tone open the fault tarks containing 1, 2000 many than the second of the second hand of the second of the second hand to was highly improbable that a pit engine would separate and become a fer hazard in seconds that was highly to constitute of the conversal constitute of constitute constitute of constitute c

OVERVIEW

The size and capabilities permitted use of both the C-82 Packet and C-119 Flying Boxcar in a variety of missions for which they were not originally designed. While necessity is the mother of invention on the part of the operators, it was the basic design of the aircraft that permitted its previous unplanned and varied usage.



a his view, the NACA wing has been removed from the nose and the NSA emblem applied to the forward fuselage, as a result of the oparization changing its name. NACA



This rear three quarter view of NASA C-82 reveals the scalloped cheatline NASA on the tail without the wing, and the NASA 107 registry. NASA SCADDEG

Military Air Transport Service

Between 1946 and 1957, the Military Air Trans- Distribution of C-82s and C-119s within MATS nort Service (MATS) operated a few C-82s and C-119s in their ancillary services. C-82s were preioned to Air Bergue Sendon (ADS) and seueral squadrons within the Airways and Air Communications Service (AACS), C-119s were operated by AACS, a ferrying squadron, and the Air Resupply & Communications Service (ADRCS) Distribution of these sircraft within MATS is contained in the table to the right.

AIR RESCUE SERVICE

Retween 1947 and 1952 the Air Rescue Service (ABS) employed up to 18 C-82s. During November-December 1946, the aircraft were used on two occasions to transport a Sikorsky R-5 helicopter long distances for their subsequent use in rescue operations.

In January 1949, a severe blizzard paralyzed the central and western states, isolating rural residents and livestock. During Operation Hayliff and Operation Snowbound ABS C-47s and C-82s dropped 525 cases of C-rations, over 20,000 lb of food, 10,000 lb of coal, and 25,000 lb of cattle feed for the snowbound inhabitants. One C-82 was assigned to each of these ARS units:

Unit	Base
1st ARS	MacOll AFB, FL
	Albrook AFB, CZ
4th ARS, Fit A	Hamilton AFB, CA
4th ARS, Fit B	March AFB, CA
5th ARS	MacDil AFB, FL
	Westover AFB, MA
6th ARS	Westover AFB, MA
	Peoperell AFB, Newfoundla
7th ARS	Wheelus AB, Libya
9th ARS, Fit DIS8th ARS	Wheelus AB, Libva
41st ARS	Hamilton AFB, CA
66th ARS	RAF Manston, England
67th ARS	RAF Sculthorpe
2151st RU	Lowry AFB, CO

Palm Beach Airport, FL ARS = Air Rescue Squadron: Fit = Flight: RU = Rescue Unit:

C-82s in Air Rescue Service were found to be generally unreliable and with only a few aircraft of that type in a given unit, a lack of spares only exacerbated the situation. Hence, these aircraft

C-82	1946	1947	1948	1949	1950	1951	1952	1953	1954	
ARS		4	6	11	18	18	14			
MATS	1	6	7	16	25	24	22	8	1	
C-119	1951	1952	1953	1954	1955	1956	1957			
AR&CS		12	12	12	12	12				



applied to the nose, waist, wingtips, and booms. The buzz number appears both on the nose and under the left wing. A protective book with streamers is installed over the nitet probe on the rose. The two bungee cords extending from the clamshell doors to the tail were used to hold and subsequently remove the elevator control locks. W J Balogh via MSgt D W Menard

MATS EERBYING SOLIADBON

The 1739th Ferrying Squadron was activated on 1 July 1952, as a result of Military Air Transport. Service (MATS) General Order 92. The 3075th Aircraft Ferrying Squadron, based at Tinker AFB, Oklahoma, was redesignated the 1739th Ferrying Squadron, 1708th Ferrying Wing, Continental Division, MATS, with this order, In-August 1952, the unit relocated to Amarillo AFB. TX with its cadre of 26 officers and 23 airmen. Within three years, the squadron grew to 117 officers and 135 airmen. While at Amarillo, the 1739th was a tenant on a base controlled by the 3320th Technical Training Wing, Technical 1708th Ferrying Wing was headquartered at Kelly AFB, TX, Also under control of the 1708th

were the 1737th Ferrying Squadron at Dover

AFB, DL, and the 1738th Ferrying Squadronal Long Beach Municipal Airport, CA. As a division of labor, the 1737th and 1738th squadrons see cialized in the movement of single-engined at craft: whereas the 1739th concentrated to multi-engined aircraft and helicopters, althout early in their career they flew all types of aircraft

Between 1 July 1952 and 31 December 1955, the 1739th Ferrying Squadron had delvered a total of 3,308 aircraft, 979 of which were to foreign destinations. No less than 27 dife. ent aircraft types were delivered by the squalron. During 1955, the 1739th delivered a totald 322 C-119s - 150 domestic and 172 foreign The aircraft were delivered to both USAF and friendly foreign governments throughout the free world. The destinations included: Alica Alaska, Canada, Central America, Europe fe Far East, Greenland, Iceland, the Middle East

2156h TTU

issigned to the 6th ARIS, C-12A-FA, sin 4-6-29826, say photographic on the ramp at MacDill AFIs, III, the series leaves surface of the booms and saiding degies of the ventral fine is painted with take aris-correction paint. Rescue markings consist of the large black-edged block on the Invarial fusetings, boom bands, and large parel ispansing from the outboard edges of the saceless across the top of the fusetings and the last three digits of on top of the fusetings along with the last three digits of the tall number. So we have been also the last on the 3-97th BGI is in the hanger. 15-97

and South America. In statistical terms, in any must 24-hour period, the 1730th hard delivered 18 aircraft to domestic destinations, while simultaneously delivering another 0.77 aircraft to foreign destinations. During this time frame. the squadron was led by three commanders -If Col Charles R Fitch (28 August 1954 to 4 Janusy 1954). Lt Col Russell Gray (4 January 1954) to 11 March 1955), and Lt Col John K Thompson (11 March 1955 to 31 December 1955) In order to maintain proficiency in the wide wriety of aircraft flown by the unit, an intensive taining program was in continuous operation twinth nints and fight anningers. Most crown was checked out in several different aircraft at the same time. In some instances, they were current in as many as eight different types. It was not unusual for a crew to deliver a C-119 to Renne bring a C-47 back to the 7L and then deliver a B-29 to another stateside base. While tios of 30-40 days were not uncommon for the squadron crews, an average of 25 days was the nom. Not all of the aircraft were factory- or dentinew. On the contrary, many of the aircraft see being returned to ZI depots for overhaul. Between July 1952 and July 1955, the 1739th Ferrying Squadron had a perfect safety record. There were: however, several near accidents Foresample on 16 January 1954, Capt James T Beck and his crew, flying a C-119, lost an engine, dropped 9.000ft, but managed to fly on tr 6.57 hours and make a safe landing at Kindby AFR Remuda. For superior flying skill in perting a major accident. Capt Beck was given an award for safety in military aviation.

Another C-119 lost an engine while over water at right. The crow bailed out and spent the right at see. The radio operator clid not see how to swim but a crew member threw mout of the troop door as the crew exited the again. The radio operator was the sole casually During the following day, the crew was soled up by a US Nany destroyer.

Ins Ist MRS, Flight A, operated C-82A, a in 6-8779A, soir of Microok AFB, Comal Zone. This sound does not carry the standard ARB black registor bands on the nose, waits, booms, and wingtps. However, the identifying markings will be lasting and in black and yieldow. It is not black and yieldow. It is not black and yieldow. It is not be lasting and the lasting part of black and yieldow. It is not part of the wingths appear to be deviced from the wingths appear to be deviced for the red paint. USEAP appears under natif wingt, Twenty-Tried AF Historica shall wingt, Twenty-Tried AF Historica shall wingth.



Mission to India

Cirew Control assigned the crew; passports and visas were confirmed along with the inevitable shot records. The crew was briefled on the latest procedure and directives set well as foreign NOTAMS (Notice to Marrier). After cleaning the squadron and drawing personal equipment, the crew was ready to depart early the next morning. The first ledg was to Hagner stown. Mo, in order to pick up a new simplem of the material control of the process of the proces

The fight crew then bought the new C-119 cm Fairchid by checking the paperwork and inspecting the aircraft. The following day the aircraft was flown to Dover AFB, D. for its international clearance. Two approaches were flown, one by the plot and a second by the copiet. These were Ground Controlled Approaches (DOA). All Dover a MATS nangagen and the plot and a second in aircraft was proposed to the plot and a second in aircraft and advanced the aircraft and advanced the aircraft and advanced the aircraft and advanced the aircraft and aircraft and

The weather was checked and a 1700 hour departure was made. After five hours of flying, Harmon AB, Newfoundland, was reached. There, the weather had deteriorated to a 1,000ft

ceiling with three miles of visibility that was furtheir reduced to half a mile in snow showers. Consequently, a GCA was executed. By the time the flight plan was closed, it was 0100 hours. After checking the weather for the next day, the crew turned in for the night. A 1500 hour departure was planned and the

crew had a scheduled wake-up call that allowed them to be at Base Operations by 1300 hours. The weather was studied and departure filled along with the main fuel tanks. An oil leak found in the No 1 engine resulted in a 2-hour delay. Once airborne, the route was direct to Prestwink AR Scotland via Rhije, West 1 at the southern tip of Greenland and Keflavik AR. Iceland. Shortly after passing BW-1, the Aurora Borealis lit up the sky presenting a scene known only to a few mortals. At the cruising altitude of 9 000ft, the outside air temperature was -15°C (about -5°F). The overwater leg was made in a single 10-hour flight. At Prestwick. Transient Maintenance took 24 hours for a post-flight inspection. Maintenance requirements for the aircraft dictated such an inspection after every 15 hours of flight for the C-119.

An 0900 hour departure was made for Wheelus AB, Libya. There was a brief overwa-





ter leg across the English Channel. France was departed at Marseilles, and once again the C-119 was over water. At Wheelus, the crew took a delay while a leaking hydraulic system

At noon on the following day, the C-119 headed across the North African desert, past Cairo, Egypt, and landed at RAP Nicosia. Cyprus.
At 1100 hours on the next day it was off to Dhahran AB, Saudi Arabia. The crew arrived after dark and hard for clear customs.

A check of the weather for New Deshi, Incline revealed that it was too had to schedule a departure for the next day. An 0800 departure was made on the following day. After a 6-hour delay New Deshi was reached after some eight horst of bying. The crear lands all a Polasm AB, Inclin. After cleaning customs and the local hards. After cleaning customs and the local hards all workers to ever met with or personnal from the 1 folder AF Force. The arcrant was obtain the contract of the contract of the contract following day where the crew officially violated hards all the personnel of the customs. The next morning the crew took it sain to the next morning the crew took it sain to

New Delhi and made arrangements for a commercial airline flight back to the United States. They traveled home in civilian clothes. Upon arriving back at Amarillo AFB, they were given three days of crew rest before they would be eligible for another trip. Assigned Aircraft

Four aircraft types (usually a total of six aircraft)

were permanently assigned to the the 1739th Ferrying Squadron: 2 B-26 Invaders, 2 C-119 Flying Boxcars, 1 C-47 Skytrain and 1 C-54 Skytmaster. These C-119Gs were 53-8097 and 53-7896

and were replete with a white cap and blue cheatline, a MATS insignia on the booms, and Continental Division band on the fins.

AIRWAYS & COMMUNICATIONS SERVICE

Between 1956 and 1950, the AACS operated as few C-82s and C-110 to support institute or marketance, and fight child to support institute or marketance, and fight child to support institute of the child to support the child to few control of the child to ACS and the child to child the child child the child child the child child the child child the child child the child child the child child the child child the child child the child the child the child the child the child the

employed in facilities checking, but rather for mission logistical support only.



ARS C-82A, sin 45-9727, as she appeared at a open house at Selfridge AFP, MI in 1950. The proper house at Selfridge AFP, MI in 1950. The probably assigned to the 5th ARS at westower AFP, MA. A jeep and rescue radio trailer are also part of the display. The black and yellow AFS bands appear around the booms, a control lock is installed at each end of the elevator. W. J Basch via MSG-D to Whomad?

The AACS units operated these aircraft from the indicated bases:

Unit	Base	Aircra	
1st AACS I&M Sqn	Tinker AFB, OK	C-824	
3rd MCS (Mobile)	Tinker AFB, OK	C119	
1881st EIS	Tinker AFB, OK	C-119	
1884th EIS	Enting AB, West Germany	C119	
1885th FCF	Elmendorf AFB, AK	C-1190	

BS Bectrorics Installation Squadron
FCF Flight Check Flight
I&M Sqn Installation & Maintenance Squadron
MCS Mobile Communications Squadron

The 1st AACS Installation & Maintenance Squadron at Tinker AFB, OK was inactivated or 16 March 1955 and the 1881st AACS Installation & Maintenance Squadron was activated or

to Marion 1955 and the 1891st AAUS installtion & Maintenance Squadron was activated on the same date. The unit was subsequently redesignated the 1881st Installation & Mamenance Group on 15 July 1955, and inactivated on 1 November 1957. The 156th AAUS Squadron (Installation & Maintenance) was organized at Friesino & Maintenance) was organized at Friesino &

West Germany on 1, June 1048. It was relies Squadron on 1 October 1948, I'van hee And. Van Statistica Squadron on 1 October 1948, I'van hee And. Statistica Squadron on 10 October 1948, I'van hee And. June 1950. The squadron on 10 October 1949, I octo

Squadron at Tinker AFB was redesignated to 3rd ACCS Squadron (Mobile) during Octobr 1952, and then the 3rd Mobile Communications Squadron.

The 1855th Flight (Facilities Checking) was organized at Elmendorf AFB, AK on 1 November 1954. Subsequently the unit was redesignated the 1885th AACS Facilities Checking Flight.

AIR RESUPPLY & COMMUNICATIONS

Special operations have their lineage backti World War Two when bombardment units for unique missions in psychological warfare. This

The ARS formerly operated C-82A, s/n 64-2025. Still wearing the remnants of its former markings, the aircraft gained civil registry N4829V and wis owned by M&F, Inc. W J Balogy NASA W When



This C-119C-25-FA, s/n 51-2587, was one of two assigned to the 1739th Ferrying Squadron. The aircraft carries stencil-style 587 nose numbers and Insignia Red Arctic markings only on the empennage, Wendel Loyd



C-82A-20-FA, s/n 44-23031, with the remnants of its MATS markings. became civil registered N4833V. This aircraft had served with Airways A Communications Service before being bought by New Frontier Airlift Corp.

finite were conducted usually at night, during who would form the initial carire of instructors tad weather, and in single-ship sorties. They dropped leaflets and/or agents. Most famous of two units was the 801st BG (Provisional)/ 200nd BG. Known as the Carnethanners, they few all-black R-24 Liberators out of Harrington. England. The unit returned to the United States. MF, SD, before going on to Kirtland Field, NM, where it was inactivated on 17 August 1945. They were awarded the Distinguished Unit Citaton for action over Germany and German-occunet teritory hetween 20 March and 25 And 1945 and the French Croix de Guerre with Palm The mission was re-established and the successor organizations, known as Air Resupply & Communications Wings, were created during the 1951-1952 time frame. They were officially tisked with psychological warfare and unconvertical operations. The three wings, 580th, 581st, and 582nd AR&CWs, were activated at Mountain Home AFR ID on 16 April 23 July 181 and 24 September 1952, respectively. The units operated as wings until September-Odober 1963, when they were downgraded to goups and continued operations until October IMA when they were inactivated. Their lineage started on to today by the USAF Special Operations Groups and Wings assigned to the

Reporting lines for the AR&C units were purssefully obfuscated for security reasons. On piper, the AR&CWs reported to the Air Resupby & Communications Service, that in turn regorted to the Military Air Transport Service. shie in fact they were the operational arm of the Psychological Warfare Division, Directorate d Plans, HQ USAF.

Combat Crew Training

Taining requirements for the Korean War mined the resources of TAC's Troop Carrier Command. On 4 June 1951, an additional nairement for Combat Crew Training was presented to TAC by MATS on behalf of the IRACWs being formed. An agreement was sached that provided for eight AR&CW crews for their own training program. Due to shortages in aircraft. MATS would have to furnish one of its own aircraft for the training. While the hearinuarters for the 314th TCW

remained at Sewart AFR. TN during the Korean. War, its operational unit, the 314th TCG, was deployed to the Ear East. The 316th TCG was stationed at Sewart and attached to the 314th TCW during this period and was tasked with the training of AR&CW crews. As of May 1951, the 316th TCG was through-putting 40 pilots and 20 aircraft maintenance technicians per month to meet TAC's requirements. To accommodate the MATS requirement, one AR&CW crew

would replace one of the TAC crews in class. Student pilots had to be current in a multiengined transport and possess a valid instrument card that would not expire during the course of training

At the beginning of each month, 14 airmen and 4 officers from MATS would start class. Of these students, two pilots and one aerial engineer would be given the compete CCTS class. including flying time. The remaining MATS students received only the ground school portion

The 60 days of ground school covered 40 hours in the maintenance training unit. 40 hours of instruments and regulations, and 47 hours on a variety of short subjects. The three wings were each equipped with a

variety of aircraft: 10 B-29 Superfortresses, 4 C-119 Flying Boxcars and 4 SA-16 Albatrosses. In addition, one or two aircraft of other types found their way in to the unit inventories. The 580th had the Douglas C-47 Skytrain, and the 581st was equipped with the Sikorsky H-19. Douglas C-54 Skymaster, and Douglas C-118 Liftmaster

The three ARC&W wings operated out of these bases

Wins Base Wheelus Field Libys 582nd

Great Falls AFB, MT & RAF Molesworth, England

The 582nd AR&CW had the distinction of conducting limited operations in support of the French in Indochina during 1953

Albanian Infiltration

Albania was established as a kingdom in 1928. with 60% of the population Muslim and 40% Christian (Roman Catholic and Orthodox). Of greater importance was the dialect spoken and tribal membership. Albania had been occupied by the Italians in 1939, and was followed by the Germans during September 1943 when the Italians tried switching sides in the war. A Stalinist government was established in the cities after World War Two under Enver Hoxha. Both was ripe for revolution and backed their exiled King Zog I (Ahmed Bey). Several failed attempts were made to penetrate Albania by Americans formed a training camp in Munich for a group known as Company 4000. This force was parachuted into southeast Albania on 19 November 1950. Radio traffic confirmed a successful insertion. Additional parachute drops of smaller units were made until 31 December 1953. However, these units were compromised by the infamous British double agent Kim Philby. Subsequently the Allied force was captured, tried and executed. Their equipment was captured and employed for several years to confuse the Americans

In an attempt to 'roll back the Iron Curtain.' as President Harry S Truman stated, the United States supported a number of agents in Albania, Poland, and the Ukraine through the 582nd Air Resupply & Communications Wing. The wing moved from Wiesbaden AB. West Germany to RAF Molesworth in February 1953 to

AR&CW C-119s

Flying Boxcars flew a variety of support missions for the three wings. They were employed as unit supply and personnel carriers. With the clamshell doors installed, they would be used to drop small quantities of supplies to agents in



Drag Net and Later Projects

Aerial reconnaissance requirements can result, in some interesting invovations through use of a variety of resources. Manned reconnaissance can prove hazardous to aircrew members – hence the phrase 'uniarmed and unatatid'. In an interesting development of ideas came the combination of high-altitude balloon-borne reconnaissance packages, use of worldwide air currents, and an entirely new use for the C-119 Flying Boxx.

Project Grayback/Project Gentrix

Project Grayback was the initial classified codename for the overall air recovery program for capturing high-altitude balloon-borne equipment. The Air Besearch and Development Command began work on the program in 1949. Subsequently the classified codename was changed to Project Gentrix. The unclassified

codename for the overall program was Project C-119L. The logistics phase of the program was known as Project Grand Union, while Project Drag Net was the recovery phase. Operational suitability testing was conducted under Project Morb Disk Hil.

About Voord War Fruch, the LIS Newy's Office of New Revent Park and developed balloons of New Revent Park and Revent Park and Revent Park and responders of the Revent Park and Revent Park and Take balloons were made from nubbristed table Take balloons were made from nubbristed table took, the newer create from nubbristed table took, the newer create from public entire the Revent Park and Revent Park was The Air Force noongread an apparement to learn more about weather conditions at higher actual would opprete in these environments. The Harry balloons held the levy, 'The new USAF

As the Iron Curtain closed around Easten Europe and the Soviet Union, there became an urgent requirement for current restalgence about that wast and poorly charted portion of we earth. Shares technology between Sy where balloons would be Isuarched the Western Europe, overly and photograph to Soviet Union from altitudes not activated by their interception, and be recovered over the western Pacific Cocan. During Octor the western Pacific Cocan. During Octor 1505 Project Grandson was implemented wit.

The Equipment Lab at the Winght AP Deal opment Center (WADC) conducted feasibility operated feasibility to the Control of the

More engineering work was required.
WADC contracted the Alf American Engineering Company to develop the recovery year for the Company to develop the recovery year winch employed was the Model 80C, which was almost defended to the equipment used to glider pick-up and towing during World Mar.

Two. Capitalizing on the company's especience with airmail pickup, a system of two pole to hold hooks and a loop assembly in position to ensure positive parachute engagement and recovery was developed.





Kaiser-built C-119F-KM, 51-8119, was accepted into the USAE inventory on 31 January 1953 and delivered to TAC on 6 February. The aircraft was assigned to the 456th TCW at Charleston ARE SC. Subsequently, the aircraft was converted into the C-119L configuration by Enirchild at Hagerstown, MD and returned to the 456th. The aircraft served with the winn at Shirlo AR Jane She subsequently served with the 94th TCW, 357th TCS and the 902nd TCG. Benjete with Insignia Red Arctic trim and red and white checkerhoard markings on the ventral firs and nose, the aircraft was photographed on the 111th FIW. Pennsylvania Air National Guard ramp at Philadelphia International Airport, on 2 November 1956, F.M. Sommerich via P.M. Rouss

Another view of 51-8119, showing the beavetal door. A pair of unusual antennas appear on to of the fuselage between the cabin air verts at the ILS antenna. These most likely were employed in the capsule snare operations.

CIMEFA 5.1-0039, with its recovery gear standed through the open beaverful door. This issuit was recovering a capsule from a Deceay statistic in November 1961, a use sibaspear to Project Drag Net. This aircraft was later sparked by the Air Deceay Comcession, was retired to MASDO on 29 June 123, and disposed of by Kolar, Inc., on 13 felexay 1974. USAF IE-CISSO The aircraft Sept. 51-1116.

seigned to the 6503rd Test Squadron. A pair of ligitationas were installed on the nose of besi alreraft to assist in locating the targets to be sared. Aircraft 51-6942 had been retired to MSDC by 1966. USAF via B Burlingame

The distinctive beavertail door installed or 51-8039, operated by the 6593rd TS. USAF vs 8 Burlingame

Two pallets were designed for the C-119. The forward pallet was called the winch deck. while the aft nallet was named the sheave deck A Model 80C winch holding a 500ft long. Finch diameter steel cable was mounted to the airch dack. The sheave deck contained the mechanical equipment employed for the tiduo operation and subsequent package sequery. Mounted to sheave deck were: the sole mounts, main sheave, aft rollers, and sable cutter. To preclude cable fouling and enhanced personnel safety, a trough with smovable covers ran down the center of both salets. The pickup poles were 34ft long and were fabricated from tubes of several different dameters welded together. The air-to-air loop assembly was made of a 110ft long. 1/2-inch dameter rivion rope with five hooks. A pair of transfer sheaves was attached to the aircraft's monoral system. These transfer sheaves held once it had been snared.

A cluster of four 24ft diameter parachutes as attached to the ballion packages. The size of each prachute was attached to a linch diameter, 105ft long drogue line, which itum was connected to a specially reinforced 'didameter drogue chute. The nominal rate of secent for the ballion-borne packages was

A crew of five in the cargo bay of the C-119 was required for operation of the balloon recovsy system. Close coordination between the tack end crew and flightdeck crew was waired to effect a successful capture.

Project Drag Net

stabished as the 456th Troop Carrier Wing Medum), Reserve, on 15 October 1952, the actives activated on 1 December of that year and operated C-119s out of Miami Internated Aprox. The 456th TCM participated in a runter of tactical exercises both in the intelled States and overseas. Most of these oversions were in conjunction with Army air-ternat forces.

On 1 March 1955, the 456th was reorganeed. The tactical group and all of its support









Above: Preparing for an aerial snatch, the recovery poles were extended through the beavertail door of alreaft 81-6115. The recovery was accomplished by the engaging line that astended between the poles. Once engaged, a nylon line absorbed the shock and a high-powered winch realed the capsule into the alreaft USBF will Burkingame.

Above right: Recovery personnel from the 6593rd TS in action. A3C Owen L Johnson and SSgt Lawrence G Bradley (kneeling) watch the nyton line as the winch slowly reels in the capsule. USAF 161300AC

Below: C-119G-FA, s/n 53-8050, in its faded dayglo orange trim, was in the midst of a surface recovery exercise off the coast of Hawaii. The pararescue team was departing the area. USAF K1326



components were inactivated. At that time the wing assumed command of three tactical squadrons and three squadron-sized detachments. Each of the subordinate units was equipped with eight specially modified Flying Boxcars. These aircraft were configured and manned for independent operations. Between around 22 April 1955 and 26 March 1956, the 456th TCW was attached to and placed under the operational control of Strategic Air Command's 1st Air Division (Meteorological Survey). During this time, the unit participated in Project Drag Net, designated as a high-altitude meteorological research program. The Flying Boxcars were standard C-119Fs modified by the replacement of the clamshell doors with the flight-operable beavertail doors. A snare system was installed within the aft fuselage. This snare would be extended through the open beavertail door, enabling the aircraft to snatch balloon-borne instrument packages. The program called for modification of 50 C-119Fs for the mission. The 1st Air Division (Meteorological Survey)

was headquarteed at Offlat ART, NE and was under the command of high Gen William P Fisher. Begriring in January 1955, flight crews and maintenance personnel from the 45th was well to the Af American Engineering less base outgrirent. A law committed in the properties of the outgrirent. A law committed in the properties of the outgrirent. A law committed in the properties of the properties of the properties of the properties of the three stealors and crews underwent estensive training, the aircraft were modified for the intelligent of the properties of the aircraft were mission. During this phase, the aircraft were



removed and 3,824 gallons of fuel, the aircs would gross about 70,404 by a take off air would be operating at 8,500-15,000 bin excess of their stalls single-engine operating weight fallotions dependent upon free air temperature at the street of take of the street of the overload condition at take of air increased the possible radius of action. In addition, the aircraft had 1,000 gallon fuel trei installed in the fuelslage.

Because of the aircraft configuration at monofication, the 46th TCW could not perform their own logistical support. Consequent their own logistical support. Consequent operations to provide the support aircraft Their support aircraft Support aircraft Support aircraft Support air support for the 40ff TCW to operate for 120-180 days, Dept aircraft swould be available at all times for the safet soft-nicologi princip patts and equipment.

Upon completion of training at Charles APB, 9C, only fully qualified acrews arims reterance personnal were permitted to do with the wing, On 2 August 1956, Col James Daniel Jr., fed an advanced party of the and Dari 1, 788th TCS, from Charleston in until arrived at their new headquarters at 80 mAB, Japan, four days later, its headquarter Charleston was closed on 16 October 191 and reopened at Shircio on 10 November 3 and or 191 and reopened at Shircio on 10 November 3 and or 191 and reopened at Shircio on 10 November 3 and 191 and reopened at Shircio on 10 November 3 and 191 and reopened at Shircio on 10 November 3 and 191 and reopened at Shircio on 10 November 3 and 191 and 19

14th TCS	Kadena AB, Okinawa
15th TCS	NAS Adak, Alaska
16th TCS	NAS Kodiak, Alaska
at 1 744th TCS	Itazuke AB, Japan
et 1 745th TCS	Misawa AB, Japan
of 1 TARIS TOO	Johnson AR Jases

Det 1 748th TGS Johnson AB, Japan

The 456th TCW assumed operational control the 6926th Radio Squadron, Mobile, in the ward area. The 6926th Apad Appeletachment

This quarter view of C-119G-FA, s./n 53-8041, was taken on the ramp at Edwards AFB, CA on 8 Squiember 1961. Note the blue nose ring, cowling, prop hub, and Catch a Failling Star Insignia wer the nettry door. To the rear were a pair of 13as. USAF XE10305

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Forton AB, Japan
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as Turkey, allowed to overfly the Soviet Union and recovered. In conjunction with the 6926th Radio Squadron, the balloons would be tacked and the C-119s positioned for a recovey. When in position, the balloon would be niessed, allowing the instrument package to descend by parachute. Flying at altitudes of \$5,000ft, the C-119 crew listened for directions When in range, the C-119 crew used a rotary dal telephone device to signal the release of he balloon and subsequent parachute deploydute in a rather sporty maneuver, allowing the strachute to be snagged by the snare. The norment package could then be nulled into o the asse being enshrouded in the parachute or the the chute be chewed apart by a propeller. rlift of from instruments in search of his base. No air-

ast losses were reported due to being

The aircraft usually flow in a loose trail formato. On one occasion the aircraft were operatcrear the Soviet coastline north of Japan. The sond aircraft commander asked the lead ship be knew where they were. 'Of course,' was to response. Then what was the island bresh them. The second lieutenant navigator telered. Next, the second ship asked if they or 1955 ted the MiGs in sight. "What MiGs?" The first forwas spotted when it zoomed beneath the edC119. Using all of his piloting skill, coupled all a great deal of luck, the lead aircraft comnader bent the throttles over the firewall and sided for the nearest cloudbank. Fighters we scrambled from Japan, but the action was serbefore they could arrive on station. That of in the officers' club there was a boastful lost commander stating that 'there he was shapair of MiGs cornered but they refused to control there within range of his .45!" If the truth were in the to con his flight suit was probably dropped off achment the deaners earlier that day.



If a package was missed, it would tall into the sea and floot. The package was roughly the size of a 55 gallon drum. It had a hobeout of attached to the top end. The C-119 could then make a low approach over the water and same the hobbled rold to strate: the package same of 55 gallon drums floating in the water. The could be seen to the country of the package same of 55 gallon drums floating in the water. The country of the country of the country of the water of the country of the country of the same of 55 gallon drums floating in the water.

During operational missions, crews from the 456th TCW would perform the capsule recovery. Upon landing, the recovered units would be accepted by an outside agency. Secure storage facilities were required at each operating base.

During the operational phase of Project Drag With the aircrews her regardless of the weather to meet their mission tasking. Maintenance crews often worked around the clock in preparation for the missions. During this period, the 498th TCW did not suffect the loss of a single aircraft or crew. For its actions in support of Prociect Drag Mich. the 498th TCW was arevided the Air Force Outstanding Unit Award for the period 1 And 11955 thempon, 201 March 1950.

The 456th TCW was released from its attachment to the 14A On 26 Month 1956, and began returning to the United States on 10 May of this year. The wing arrived at Additional to 10 May of this year. The wing arrived at Additional to 10 May of this year. The wing arrived at Additional to 10 May of this year of the 10 May of th

Catch a Falling Star

Air Force Systems Command operations, similar to finose conducted during Project Drag Met, were flown with C-1195 between 21 August 1968 and 25 January 1962. These operations were conducted out of Hickam AFB, Hi, by the 6993NT Erest System out of the Cheam AFB, Hi, by the 6993NT Erest System out of the Cheam AFB, Hi, by the 6993NT Erest System out of the Cheam AFB, Hi, by the 6993NT Erest System out of the 6993NT Erest System out

These aircraft were modified to incorporate a pair of antennas in the nose and associated horning radios to assist in directing the aircraft to a descending cancular

Nine C-119s were operated by the 6593rd Test Squadron. Three of the aircraft returned to the Zi in July 1961, followed by four more in November, and the final pair on 25 January 1962.

The aircraft assigned to the squadron and their arrival dates are shown below:

51-8037 19 Sep 1968 51-8045 18 Sep 1998 51-8038 4 Sep 1968 51-8049 11 Sep 1998 51-8039 21 Aug 1968 51-8050 8 Sep 1998 51-8042 29 Aug 1968 51-8115 25 Sep 1968 51-8042 27 Aug 1968

Lockheed C-130 Hercules aircraft took over the Catch a Falling Star mission upon the retirement of the C-119 Flying Boxcars.

Discovery XIV Capture The art of capturing airborne packages devel-

g oped in 1952 remained an art in 1960. The crew of Pelician 9, under the command of Capit Harold E Mitchell, was assigned to the recovery of the Absovery XIII capsule. While the radio of beacon for the off-course capsule was picked up by the crew, the capsule splashed down into the Pacific. The crew of Pelician 9 spotted the capsule bobbing in the ocean and a Navy helcopter was vectored to the Appenging-(There a.) The USAF Museum at Wright-Patterson AFB, DM: displays, Capt Hardol E Mitchelf C 1194-FA, kin 51-6007, in which he made the USAF's first capture of a capture form space. This aircraft has Gloss Insignia Red Arcite trim; whereas most of these aircraft had the daylo orange scheme of the day. The to of the nose number has a ratural restart had the daylo orange of the AFP schosses that the capture of the AFP schosses of the AFP schosses tacks on top of the presence. The control of the presence of Theorem and the capture of the presence of the capture of the capture of the presence of the capture of the presence of the capture of the capture of the capture of the presence of the capture of the capture of the capture of the presence of the capture of the capture of the capture of the presence of the capture of the capture of the capture of the capture of the presence of the capture of the capture of the capture of the presence of the capture of the capture of the capture of the capture of the presence of the capture of the capture of the capture of the capture of the presence of the capture of th

This right side view of Capt Mitchell's aircreft reveals the beavertail doors and the aft end of the tapered black speed line. The window curtains have been drawn to protect the aircraft is still part of the outside display. To the rear is the museum's B-50. T Panopals

A close-up of the nose of Capt Mitchell's C-119J-

frogman was able to right the capsule and secure a cable to it. Then the helicopter hauled the capsule back to the USA'S Hall Victory, T.AK'28 – a Greenville Victory Class Cargo Ship. The ship was reclassified as a Missile Range Instrumentation Ship and renamed USA'S Longview (T-AGM-3) on 27 November 1960. Discovery VV was launched from Vandender VV was launched from Vandender 1960.

being ARE, CA on 18 August 1990, into a northsouth polar other in top of a Thor booster rocker. After burnous of the Thor rocket engines, an Angena A both the capstrale into an orbit with miles. The top speed attained by the capsule was 17,050mp-h, the 17 or oths, the sadelite ejected from the Agens A booster, restroncises a visit 17,050mp-h, the 17 or oths, the sadelite ejected from the Agens A booster, restroncises was 17,050mp-h. The 17 or oths, the sadelite ejected from the Agens A booster. The first operational recovery mission occurred on 19 control of the 18 or other 19 or other 600/90 T et al. Squadron caphrade the re-ently over the Patics.

Because the Navy got the laurels for the recovery, Capt Michel and the crew of Pelicans 9, were assigned as the least backup sortie for the recovery of the Discovery XV captule. For this mission, the 6593rd Test Squadron laurched six C-119L and C-190. Their mission was to patrol a rectangular recovery box measuring 60 by 200 miles. Pelican 9 and another C-119 were assigned patrol areas beyond the recovery box of the C-190 for the covery box of the C-190 for the C-190 for the assigned patrol areas beyond the recovery box of the C-190 for the C-190 for the covery box properties of the C-190 for part properties of the C-190 for properties of the covery properties of the covery properties of properties prop

Neutron of Pelican 9 sighted the capsule The crew of Pelican 9 sighted the capsule some 850 miles southwest of Honolulu. They ferr sighted the bloowing compa and white passicular from the Diovey compa and white the passicular from the Diovey company of the separate that the passicular that separate passicular that separate passicular that tappers was deployed and a pass was made. They missed by a mere six inchest Capt Michell wancked the aircraft around for another mr. ney'n folial again. Determined of or make the catch. Capt Michell hauded the aircraft around for vet another un. 48,800t they accessfully







snagged the capsule. The crew of Pelican 9 called in to mission control to advise of their catch only to be told to stay off the radio because they were interfering with the recovery

operation.

The capsule had flown for 27 hours and covered 450,000 miles through space. This was the first film capsule recovery from a satellite. The satellite had been launched the day before and placed into orbit. Photographs taken during this mission provided valuable intelligence

data on the Soviet Union. This aircraft, sh? 8037, is currently on display at the US Museum at Wright-Patterson AFB, OH. For their efforts the crew of Palican 8 in

evantable for their efforts the crew of Pelican awarded individual Air Medals, and Capt Michael was presented with the Distinguished fir Cross.

Capt Mitchell was a native of Bloomip IN. His name would again surface relative: AC-119 gunships in Southeast Asia (see0) ter 16). scanned

by alfetta (2007)

USAF Reserve C-119s

At Force Reservists had to maintain the same less of proficiency as their Regular Air Force counterparts in all phases of the troop carrier musics instructor pilots were encouraged to have new students study the aircrew training teron airplane overview when a mobile training detachment course was not available. Flight Soft manual technical order. Other areas of proficiency included:

Troop Carrier Operations - General

Troop Carrier Operations During Nuclear

Hazardous Cargo Loading

When called to active duty. Regular Air Force boss and units being supported by the Reserve troop carrier units expected all persome to become an integral part of any higher

The Air Force Reserve gained C-119s in two states. One was when 19 Reserve wings were advated for the Korean War, and the second use in 1957 when the Reserve increased its top parier force to 45 troop carrier squadrons.

Karean War Call-Up

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Cant Mitt

ished Five

During the Korean War the 375th and 433rd loss Carrier Wings (TCWs) from Cleveland OH and Pittsburgh. PA. respectively, were aled to federal service on 15 October 1950. Both units transitioned from the Curtiss C-46 Contrando: the 375th TCW into the C-82 and te 433rd into the C-119. Both units were migred to Greenville, (later Donaldson) AFB. 50, where they supported the US Army Infantry Shoo's airborne requirements out of Fort Birning GA On 14 July 1952, the 375th TCW

hase C-119s from the 904th TCG, 336th TCS. Swort AFB, NY participated in Operation Pine Com. at Pope AFB, NC, in September 1956. In he foreground is C-119G-36-FA, s/n 53-78327.

Ni C-1198-12-FA, s/n 49-111, as she appeared agost-Korean War configuration with a single margear, and no ventral fins on the tailbooms. highis Red Arctic trim appears only on the SI AR FORCE' on the fuselage beneath the sings and the new 'U.S. AIR FORCE' on the triand fuselage. This aircraft went on to serve sia (see Chia am the 336th TCS, 904th TCG, Stewart AFB, NY. was released from active duty and the unit returned to Pittshurch where they recurred Reserve operations in the C-46. The 433rd TCW, at Hensley Field, TX, served TAC for several months before deploying to Rhein-Main AB. West Germany, to participate in tactical exercises and special missions between 5 August 1951 and 14 July 1952, when they were relieved from federal service and inactivated until 1966

Another 17 Air Force Reserve troop carrier wings were also mobilized for the Korean War Six of these wings remained within the 71 to augment Tactical Air Command's Eighteenth Air Force. Five of these wings transitioned into C-119s. The 403rd TCW from Portland, OB. was sent to Korea on 14 April 1952, the 435th TCW, at Miami International Airport, FL. flew both the C-46 for crew training and the C-119 in support of Tactical Air Command (TAC) missions within the ZI between March 1951 and

December 1952, when they were relieved from active duty and C-119 operations. The 514th TCW, at Mitchel AFB, NY, initially operated C-46s and then transitioned into C-119s on 31 December 1952, which they operated on active duty until 1 February 1953. The 516th TCW at Memphis Municipal Airport, continued to operate their C-46s until 1952 when they changed to C-119s that they operated until the unit was replaced by the 463rd TCW on 16 January 1052

While operational with the Eighteenth Air Force, the activated AFRES TCWs participated in routine training missions and several joint exercises, as shown in this table.

Name	Dates
Exercise Southern Pine	August 1951
Operation Snowfall	January to February 1952
Exercise Long Horn	March 1962







Greenland while the base was being constructed between August and November 1992. Here, C-119G-FA, sin 32-3910, shares the gravel ramp with an Air Rescue Service 3.41-6 Albatross. Maintenance is being performed on the No 2 R-339 cenjes. In addition to the Arcite trin, note how far all the black anti-corrosion paint was applied to the boom. Exhaust residue may be seen on the densal fin. LCG CD Bristh



Displaying the dayolo grange paint of the day these C-119s from the 904th TCG, 336th TCS were parked on the ramp at Stewart AFR, NY, in the foreground is C-119B-12-FA, s/n 49-0111. The 0- indicated that the aircraft was over 10 years old, with retrofitted dorsal and ventral fins. The production outboard stabilizer tips were retained. Black-edged dayglo grange bands were applied to the booms. Black-edged red and white stripes were applied to the vertical tails. To the rear was C-119B-12-FA six 49-0110, with a scalloped dayolo orange nose trim. A pair of blue chevrons appeared on the dayglo nose. It had been upgraded to the C-119G standard with dual nosewheels. Note the open astrodome hatches to assist in keeping the

The 435th TCW at Mismi International Airpot was composed of both Reservists and Regular Air Force personnel who had seen service in the Korean War. In August 1952, the wing deployed four C-119s to Thule AB. Greenland, where the operated until 1 November 1952. The number of the deployment was to support the building of an airstrip and weather station that would become Nord AB. Greenland. The new base was then operated by Denmark. The 435th's air. craft were employed in beavy equipment does One piece of hardware needed for the construction was a road grader. It was too large to fit into a C-119; however a solution was at hand One of the construction men was known as 'Blowforch' Morgan because he always pariet a blowforch on his belt. The solution was to out the road grader in half and load the parts into two aircraft. After the drop. 'Blowtorch' Morran welded the two halves together presumable using a more appropriate tool.

Operation Sixteen Ton

Between 22 June and 15 September 1964, in AFRES demonstrated its sustained operation capabilities for the first time in Operation 5 feer 17m. During this operation, AFRES one flew 164 sorties, arithing 866,715 to of cargosupport of long-range navigation (JORAN) as toors in the Cariobbean. The LORAN sites povided navigational signals for both aircraft ari ships. Twelve of the thirteen C-46 and C-16 AFRES units both COMAC's First, Teets is

During the height of the Cuban Missile Crisis redenloyment, the AFRES sent C-119CF-FA sx 52-5950, to Homestead AFR, FL, home of the 19th RMW, operating R-52s. While the 435th TCW, AFRES, operating C-119s was also stationed there, this was a transient aircraft for was being directed to a parking stall by this SE 'FOLLOW ME' truck. Crews were pressed to their physical limits during this period. This night, the C-119 overran the truck that was tipped about 45° in the air by the plane. The aircraft's nose struck the 'FOLLOW MF' sins. while its belly hit the aft corner of the truck There were no injuries, other that to the pliefs pride. There are no records of an accident rest being filed. The crew probably stopped at the cleaners then hit the bar. Sheetmetal technicians would have renaired the aircraft. and the pickup would have mysteriously been dropped from the inventory, USAF por Poose Sa

100 Farchid C-82 & C-119 By alfetta (2007)

C119G-EA air 52-5929 from the 97th TCS 941st ICG 460h TCW stationed at Paine Field WA ass coefficiend for a beauty drop exercise. This ship was retired from service in 1971, returned to senies in 1972, and re-retired in 1974

G1990.36.EA ain 53,3202 from the 97th TCS was fulno in the Seattle area. Note the doublestenned cheatline Assisted to the 314th TCS 940th TCG 349th

TOW of McClellan AEB, CA, C-119G-24-KM, s/n \$3,8124 was obstographed at Norton AEB, CA in the early 1960s. It was the subject of one of the aimisses in the Testors Italiani release of the Cits model kill. The aircraft subsequently flew with ADC before being retired to MASDC in 1965 It was obtained by Kolar Inc. on 12 February 1976, H.S. Goron

Fourteenth Air Forces participated. The aircraft were under the operational control of the 2585th Air Reserve Flying Center. Each day between one and four aircraft departed NAS New York for Miami International airport. From here the aircraft flow to San Juan Puerto Rico or San Salvador AFR, Rahamas

Airlift Mission Assignments Duties 1957 a major reshuffle occurred in the

USAF airift community. Military Air Transport tr stategic airlift. TAC retained the troop caror mission using aging C-119s, C-123s and teely arriving C-130s. Gen O P Weyland, TAC Commander (1 April 1954 to 31 July 1959) potested about this redistribution but the ation was cast in concrete. His successor. wh meeting the Army's airlift requirements Sin Everest had to testify before a Congresssore subcommittee that TAC had the capabila taxenuide the requisite 1 200 tectical aircreft to need the Army's needs. To meet this formiatletask Gen Everest included TAC's 48 new \$130s and 720 C-119s that had not been tanslerred to the Reserve.

At Force Reserve

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Troo Carrier Expansion The Air Force Reserve troop carrier wings routed 12 with C-46s and one with the C-119 transcipate more regularly in Air Force opertors and joint operations. TAC also recompedd that Reserve units end their annual targe encampment with a mass airdrop. In Agust 1966, the Reserve units showed their polity when they participated in Operation

mid For Bragg by both active and Reserve Duing the first half of 1955, Continental Air Connand (CONAC) directed the detachment scattle locations. This concept offered sevmistiantages. Local communities were more Any to accept a single squadron rather than







an entire wing: separate squadrons would operating element of a wing; and location of separate squadrons within smaller population centers would facilitate recruiting and manning. CONAC's plan called for relocation of AFRES units at 59 locations throughout the ZI.

The first AFRES C-119 detachments are shown in this table: Winn Rose Sauarina Base

459th TCW Andrews AFB, MD 757th TCS Burd Field, VA 435th TCW Miami, FL 78th TCS Oriando FL

In August 1957, the Air Force Reserve lost its entire fighter mission to the Air National Guard. thus making the Reserve a troop carrier/rescue force with 50 squadrons. In the event of mobil

lization, the 45 troop carrier squadrons would all be gained by TAC and flew the C-119 exclusively. At the beginning of 1960, the Reserves had 15 troop carrier wings with 45 squadrons that were located at 35 airfields around the country.

C-123, the C-119 remained the primary aircraft in the inventory. At its peak, in 1962, the Air Force Reserve operated 669 C-119s Between 1954 and 1972, the AFRES C-119

1954	31	1959	622	1964	601	1969	190
1955	35	1960	653	1965	578	1970	120
1956	39	1961	614	1966	399	1971	34
1957	201	1962	669	1967	344	1972	13
1958	517	1963	616	1968	259		

inventory was as shown:

scanned by Cars Cilla affetta (2007)







The mission of the Reserve troop carrier units was: to provide air transportation for airborne forces, their equipment and supplies; provide medium-range movement of personnel, supplies, and equipment, including air evacuation within the theater of operation.

Mission Transition
The transition of the Air Force Reserve unit stationed at Hill AFB, UT from a fighter-bomber smustron to a troop carrier squadron, occurred

in 1957. It is used here as an example of how the Reserve units made the change. The 313th TCS was assigned to the 349th TCG in June 1957 and was stationed at Hill AFB. Previously both the squadron and group had been a fighter-bomber organization equipped with F-84Gs. With the transition came the lumbering Curtiss C-46 Commandos. On 18 August 1957, the entire 313th TCS moved to Chico, CA with their eight C-46s to operate with other squadrons of the group. Eventually, the 313th TCS was stationed at Portland Alpront, OR.

bins AFB, GA, was stood up at Hill AFB in October 1957 as part of the 452nd TCW. By early 1958, the unit began receiving C-119s and funds were allocated for construction of a new hangar. This hangar could accommodate up to four Fixing Roccars. The squadforis first two

This line-up of 733rd TCS aircraft reveals 10 C-119s assigned to the unit. There is a mixture of plain and Arctic-marked aircraft, but all have the AFRES insignia applied to the fins. 419th TFWHO

Here C-119G-36-FA, s/n S3-8096, is captured in flight with its full-up unit markings and Arctic trim. The AFRES insignia appears on the fis. 419th TPW/HO C-119G-36-FA, s/n S3-8166, is undercoing a

practice radiological decontamination by the base fire department. 419th TFW/HO

full-time Air Reserve Technicians were gaind by the squadron in October 1958. By April 1984 the squadron was equipped with 16 C-118 and became the first unit in the Fourth Air Fost to qualify new combat ready crews. On 15 and 16 April 1989, 10 of the 23dd f08.

C-116 a sinfted 200 parathops from the 104 Abthornal Division, and their equipment, from IAPB to a training site on the Vendovine, the Range, in Operation OHE 2004 IC Collectus Colley, Table TCS Commander, stated. Que. Debug resizion in the Table performed and telepretions and training gained were invalidable. The true effectiveness can be measured by the excellent participation, even though this section of the Collectus Collectus and Collectus Collectus and Collectus Collectus and Collectus Collectus

Subsequently the 733rd TCS trained withits 82nd Airborne Division and the Utah AN31 special forces.

Exercise Bright Star/Pine Cone III
A major joint training exercise was conducted during August 1960 employing over 55.00

AFRES, ANG, and Army personnel in Exercise Bright Star/Pine Cone IV. The operation include troop drops, air resupply, and aeromeda evacuation under combat conditions. Mai Ger Maurice A Preston, commander of the Na teenth Air Force, TAC, was the overall exerce director. For the first time, ANG and AFRE generals commanded their own forces duty an exercise. Brig Gen Donald L Strait con mander of the 108th TFW (NJ-ANG) led to F-84Fs from the 108th TFW, McGuire AFB N and RF-84Fs from the 117th TRW (AL-AN) Birmingham, AL. These aircraft operated conjunction with TAC F-100s. Brig Gen Rolling Moore Jr. commander of the 349th 10 (AFRES), Hamilton AFB, CA, was in charge all troop carrier operations during the exercis

A total of 30,000 Army troops, of will 1,000 were airborne, from the XVII Alban Corps Artillery, 82nd Airborne Division, 19 Airborne Division, a pair of engineering bat ions, military police, and other combat in support elements were under the command LE Gen Herbert B Powell, commanding gen of the Third Army. These AFRES units participated in Exes.

Bright Star/Pine Cone III Scanned

alfetta (2007)

Air Reserve Technician (ART) SSgt David G Kelly was also an accomplished artist. Here he is applying a Santa Claus to the nose of one of the 72bd TCS abcraft. 415b TFWHO.

ATT Durid G Kelly also painted Season's Seetings on C-119G-36-FA, a'n 33-B136. Note to size insignals in the nose and the red and white pop tips. Such markings were applied each year when the unit flew a Christmas alrop for the children on the local Navajo male reservations. 419th TPWHD

Dit .	Base	Aircraft
MOTOW.	L G Hanscom Field, MA	C-119
302rd TCIV	Lookbourne AFB, OH	C-119
435dTCW	Selfridge AFB, MI	C-119
433d TOW	Brooks AFB, TX	C-119
SB1CW	Bakalar AFB, IN	C-119
45th TOW	Homestead AFB, FL	C-119
40h TCW	Gen Billy Mitchell Field, WI	C-119
42td TOW	Richards-Gebaur AFB, MO	C-119
48h TCV	Dobbins AFB, GA	C-123
48h 70W	Ellington AFB, TX	C-119
452hd TOW	Long Beach Mun Apt, CA	C-119
58h 70V	Andrews AFB, MD	C-119
BISh TOW	NAS Willow Grove PA	C-119
Blan TOW	Mitchel AFB, NY	C-119

naddion, six aerial port squadrons, two casually staging squadrons, and an aeromedical excustion group from the AFRES participated in the exercise.

AFRES troop carrier wings operated out of the blowing feids: Shaw AFB, SC; Myntle Beach AFB, SC; Moth Auxiliary Articl, SC; Charleston AFB, SC; Robins AFB, SC; Bub Field, GA; and Pope AFB, NC. The scenario was to simulate a limited war

actor where an allied nation was invasided as engiphoring state. The severeits as in North and South Carolina, On 13 says 1590, in response to a pile for sixual 1590, in response to a pile for assistant from the allied nation, the 101st Airson Solision assembled at Fort Carolina Control Carolina Control Carolina Caro

Allacing enemy troops had taken over the International Approx on 16 August, and seabil oby of Fayethille had been evacuted fewly troops had also gained control of laint deal routes control the city. MATS airsharks airlined more than 6.000 paratrols of tall the Athorne Division and around 2.000 in department and supplies into Septiment 1000 and 500 per 1000 per 1000 per 1000 per 1000 per 1000 per and Stategies Amy Corps (STRAC) period of the Matter International Commander of laint forces in the theater.

Enemy forces had split the allied nation in the by 17 August. More than half of the





11,500-man invading army had been committed to the campaign.

ted to the campaign.

By 18 August, some 600 AFRES troop carrier aircraft and 120 ANG aircraft had arrived in the theater. The fighters used air refueling to make their 3 000 mile trek, thereby simulating an

Enemy forces continued to make gains on the following day, a relief forces continued to stage. Fighters from the allied forces gained aerial supremacy, in addition, seven special activities sorties were flown by SA-16 Abstrosses, and three RB-57 Intruders brought back highways of the hattle continued to the seven of the hattle continued the seven of the hattle continued to the hattle continued to the seven of the hattle continued to the hattle

On the morning of 20 August, TAC and ANG fighters had begun softening up the invading forces prior to the paratroop assaut. Following closely behind the fighters were the troop carrier aircraft flown by AFRES crews. By noon some 6.600 paratroops from the 101st Airborne

Division and 890 tons of equipment were dropped into the battle zone by C-119s, C-123s and C-130s.

and C-190s.

Heavy ground fighting continued through 21 August. While the invading forces were temporarily repelled, they regained the initiative.

The weather on 22 August brought low cellings and intermittent rain. Despite the conditions, more than 3,500 airborne troops deployed to bases near the war zone and were preparing to jump into the Fort Bragg-Camp Macsial area on the following morning. Airliff was to be provided by 93 C-119s making 180 sorties. In total, 7,735 paratroops and over 2,535 lons of equipment had been airlifted into the staging areas.

Heavy ground fighting continued during the morning of 24 August. A break in the weather came in the middle of the day and troop carrier



troops from the 82nd Airborne Division and 238 tons of equipment into the battle zone. Cross winds hampered operations in the airdrop areas. The AFRES employed 123 C-119s to drop. the troops and equipment during a 2-hour break in the weather. While further assault operations were suspended. TAC and ANG fighters continued to control the area over the battle zone. The battle and exercise were over on 25 August. During Exercise Bright StariPine Cone IV.

10.519 paratroops from the 82nd and 101st Airhorne Divisions, and other STRAC units, and 2 845 tons of equipment were carried by AFRES and TAC aircraft. The intense exercise provided vital experience and proved the capabilities of the citizen airmon within the AFRES. This exercise also changed the collective minds of the active duty US Army, who henceforth asked that AFRES troop carrier units provide weekend support for Army paratroop operations.

The Cuban Missile Crisis

By October 1962, the Reserve structure had changed slightly. There were 12 C-119 wings with 37 squadrons, a C-123 wing with three squadrons, and a pair of C-124 wings with five squadrons. These units would be gained by TAC in the event of a call-up. Six months prior to the Cuhan mobilization, the C-119 and C-123. ten aircraft per day for TAC-directed missions.

The Western Hemisphere had been free of Communist domination until the overthrow of Cuba's government by Fidel Castro. The Soviets began nurturing this toehold in the Americas by providing economic aid and advisors. The United States suspected that the Soviets were bringing strategic missiles into Cuba.

The Cuban Missile Crisis was coming to a Time) Friday 12 October 1962, about an hour before normal quitting time. Mai Wesley C Brashear was on duty at the Continental Air Command (CONAC) command post. He took a telephone call from Mai Gen Stanley J Donovan DCS/Operations at Headquarters TAC TAC had an urgent requirement for the airlift of approximately 60 aircraft loads of number one priority from as yet undetermined points Monday, 15 October. The specific mission requirements would be given on Saturday. The mission was classified secret. An assessment made by Mai Brashear showed that training C-119s. 12 C-123s, and 15 C-124s available for such a mission It Col W I Spenser Reserve Chief of the Current Operations Division, called TAC Headquarters to determine if the mission

C-110G-26-EA a/o 52-2201 was assigned to the 615th TCC at Richards Cohour AER MO when photographed on 12 August 1972. The aircraft had a white cap and blue cheatline above the Aircraft Gray fuselage and empennage. An AFRES insignia is applied to the vertical fin and the AFRES identification is carried on the boom

was valid, and then committed the Reserve

TAC called the CONAC Command Post has with the mission requirements, and the Reserve mobilized five C-119 wings around the county These wings were instructed to prepare to operational orders that would be given at 0800 hours on Saturday. When the operation was completed, a total of 80 (not the initial) requested 60) C-119s flew 1.232 hours during the weekend, carrying 45 passengers and 361 5 tons of carno to Naval Air Station Key West, and Homestead AFB, FL. The build-upin

the southeastern states had begun These AFRES C-119 units were deployed to the southeastern United States for the Cuter Missile Crisis:

Unit	Base
302nd TCW	Clinton County AFB, Ohio
349th TCW	Hamilton AFB, California
434th TCW	Bakalar AFB, Indiana
446th TCW	Ellington AFB, Texas
452nd TCW	March AFB, California

Sweeney Jr. commander of TAC, sent No appreciation to the units, saying: '...The pesent deployment of personnel and supplies. has been a challenge which at times created what appeared to be insurmountable problen areas in the air transport field. As a result of the professional competence demonstrated throughout your entire command, we wen effectively. In every instance where it became necessary to seek the assistance of your Reserve force C-119 capability, your people came through with flying colors

Between 16 and 27 October, CONAC and support of TAC continued at a very high re-While normally the Reserves provided 10 at craft per day, they now had 25 supporting to daily airlift requirements. Air Force Reserv C-119, C-123s, and C-124s delivered an add tional 332 passengers 342.2 tons of cares the Southeast between 20 and 27 October II addition, they flew priority missions in sugar of Air Defense Command (ADC), Air Force Sa tems Command (AFSC), and Air Force Loss tics Command (AFLC).

C-119F, s/n 51-2671, operated with the 73rd ICL 434th TCW, at Scott AFB, IL when photographs in June 1963. A partial white cap was applied over the forward fuselage. An AFRES disk-ship insignia appears on the fin. Note the Army Lill in the background. Via N E Taylo



0.1190/36-FA, s/n 53/3186, from the 68th TAS. Atted TAW, appeared at Filmendorf AFR, AK, on 1 July 1969. The Air Force Reserve Insignia had been changed from a disk to a crest, and AFRES was added to the tailhoom. An Air Force Distanting Unit Award, earned for service between 1 July and 31 December 1964, is stolled to the nose. The curtains are deployed beneath the cockpit overhead windows and the sstradome batch is opened for ventilation.

Newspapers and radio and television newscasts kept the American public abreast of the developments in the Cuban Crisis. As a result, frame as no surprise to the Reservists when ore C-123 wing and seven C-119 troop carrier wings were given a no-notice recall at 0120 Name 28 October 1962

The status of the mobilized aircraft and aircrews from the Cuban Missile Crisis is shown in The 403rd TCW experienced a unique hap-

nation during their mobilization. TAC had elected to impose a full Operational Readiness Issection (ORI) on the unit. While they sessed, it was only after a great deal of work. The TAC ORI team arrived at Selfridge AFR, MI as 53 November, announcing their intentions. The wing was just emerging from the great number of problems associated with the 28 October no-notice recall. They were in the midst of converting from CONAC to TAC directies. Most of the air base personnel who would nomally have supported the wing directly if it ted been operating independently as a Reserve unit hard been integrated into other Selfidoe AFR functions. Getting them back for te ORI was no small job in itself. Since the sing had not received any mobility orders, it sas a practical matter to give them as much being possible by integrating them with the soular base functions. Conflicts between the Reserve manpower authorizations and TAC's maria raused another major problem. Despite hese conflicts, during the time of the ORI the 40rd TCW managed to fly more missions than asked for during the inspection.

While not part of the call up, the 435th TCW us directed to move its C-119s from Homeput AFB. FL. on 23 October. Nine of the airgut went to Miami International Airport, and noter three each went to Broward County and West Palm Beach Airports for the night and



then all were consolidated at Miami on the following day

Mobilized were 14,220 personnel and 422 AFRES aircraft. During the Cuban Crisis, the Reserve troop carrier units airlifted 4 743 000 lb of cargo to bases in Florida. During the redeployment phase, they flew 274 additional sorties and moved 2.110.952 lb of cargo from Florida to all points throughout the Zl. While officially inactivated on 28 November 1962, a total of 442 AFRES aircrews, including 290 pilots, 64 navigators, and 88 flight engineers. voluntarily remained on active duty to assist the Regular Air Force personnel redenloy the materiel and personnel deployed to the Southeast for the crisis On 2 November, Adlai E Stevenson, US

Ambassador to the United Nations, sent a letter to Anastas I Mikovan. First Deputy Prime Minister of the Soviet Union, identifying certain 'offensive weapons' in Cuba and asking for

- Surface-to-air missiles, including those designed chemical compounds capable of being used to nower missiles

- Bomber aircraft - Bombs, air-to-surface rockets, and guided

- Warheads for any of the above weapons

MA C-119G/J OH C-119C/G/J C-119G C-119G/J	54 52 68	39 39 51	66 66 88	33 28 57
C-119G	68			
		51	88	57
0.119011				
	54	35	66	40
C-119G/J	57	42	66	37
d, WI C-119C/J	37	27	44	34
123) C-123	45	38	84	38
A C-119G/J	59	43	66	39
	426	314	546	306
	ld, WI C-119C/J 123) C-123	b, WI C-119CU 37 129) C-129 45 A C-119GU 59	bl. WI C-119CU 37 27 123) C-123 45 38 A C-119GU 59 43	ld, WI C-119CIJ 37 27 44 123) C-123 45 38 84 A C-119GIJ 59 43 66

or operate the above items such as communications, supply, and missile launching equipment, including Komar-class motor

On the same day. Soviet Prime Minister Nikita S Krushchev agreed to remove the IL-28 Beagles from Cuba. After discussing Krushchev's 14-name letter, the Evenutive Committee acreed

Afterwards it was surmised that the Soviets had planned on establishing the missile sites in States was to counter a planned Soviet incursion into West Berlin. There was also speculation that the Soviets had planned on building a submarine base in Cuba. An interesting outcome from these tense

times was the Washington-Moscow Hotline. officially known as the US-Direct Communications Link for Crisis Control. The sustam was installed less than a year after the crisis. The United States and the Soviet Union signed an agreement for this vital communications link on 20 June 1963

An editorial in the London Times credited the troop carrier units with a major role in breaking the Cuban Crisis deadlock, Titled, 'American Determination - Key to Success,' the editorial stated, 'Looking back over that fateful week, some officials are disposed to believe that the mobilization of 24 troop carrying squadrons finally persuaded Mr Krushchev that war would be inevitable if the missiles were not withdrawn."

Regarding the mobilization, Gen Curtis E LeMay, Chief of Staff of the Air Force, wrote: 'As the recalled Air Force Reserve units return to inactive status. I wish to express to the members of the Air Force Reserve Forces the pride which the Air Force feels in their outstanding response to the Cuban Crisis, both those called to active duty and those serving without mobilization orders. Among the noteworthy unit and individual actions were the performance of the



The R3rd TCS, 437th TCW, operated C-119G-FA s/n 52-5901, from O'Hare Airport, Chicago, IL in 1961. The wing insignia appears above the entry door. Insignia Red Arctic trim is applied to the aircraft. Flush ADF antenna fairings are installed on top of the airplane. A R Krieger via

C-119G-FA, s/n 52-5951, was operated by the 313th TCS, 939th TAG, 349th TCW, from Portland International Airport, OR, A white cap and blue cheatline are applied to the fuselage. Anticorrosive paint is applied to the belly, while the fuselage sides are natural metal. The cowlines are natural metal, but the booms are painted Aircraft Gray, An Air Force Outstanding Unit Award is carried on the nose. CAC is applied to the boom while the round AFRES insignia appears on the fin. A Swanbero via MSqt D.W.



Troop Carrier Wings and Aerial Port Squadrons that reacted immediately to the call to active duty: the remaining Air Force Reserve and Air National Guard units of CONAC, TAC, and ADC that heightened their readiness: the aircraft dis-Force Reserve recovery units working around the clock on dispersal of SAC, TAC, and ADC elements... This demonstration of responsiveness of the Air Reserve Forces underlines the importance of maintaining and further supporting the readiness of this vital element of Air Force capability. Our nation can be proud of the professionalism and devotion to duty and counmenting our active forces in this crisis."

Outstanding Performance The 440th TCW, stationed at Gen Billy Mitchell

Field. Milwaukee. Wl. was recognized as the top AFRES unit for two consecutive years at the Air Force Association's 1963 and 1964 National Conventions. The award is based on the wing's tactical, administrative, and logistical efficiency with the winner being judged by CONAC from submissions by each of the AFRES regions.

- In August 1961, the 440th TCW participated in one of the largest peacetime maneuvers known

CONAC for the past two years - During the Cuban Missile Crisis, the 440th led all The 1963 award was for the units overall pereight recalled AFRES units in aircraft and aircrew operational readiness. Three out of four of the 440th Field Maintenance

formance as follows:

Squadron personnel sent to technical schools

1.325 paratroops and 253 tons of equipment.

Force Association in Las Vegas in June 1962

for Exercise Big Sweep II in Alaska where they

Richardson, Alaska, In addition, they airlanded

The 1964 award was for the units overall per-

engine by either a Regular Air Force or AFRES

Dedicated maintenance personnel permitted the

unit to achieve more flying hours than any other

- Having the best supply department within

airdropped paratroops and equipment of the

1st Rattle Group, 23rd Infantry, from Fort

- The 440th Maintenance Squadron was

Troop Carrier Competition sponsored by the Air

- The 440th TCW had a stellar showing at the

were honor graduates in the top 3% of the classes for the past two years. - Aircrews scored high on written examinations where 85% is the passing grade. Their average

test score was 96%. - The wing newspaper garnered first place for CONAC units for the past two years. - During a TAC ORI, the 440th TCW was

recognized as the best AFRES unit evaluated. exceeding some Regular Air Force units. 900-Series Groups

Initially, each Reserve troop carrier squader.

regardless of location, reported to a parent trop carrier group with the same designator as the group's parent troop carrier wing. These group were generally co-located with the parent wint The group level was phased out around 1969 aircraft and flew 94 sorties in five days, dropping thereby having each squadron, regardless of location, reporting directly to the wing. The troop carrier squadrons are operational units and di not have integral support components such a aerial port, security, civil engineering, communi-- During July 1962 the wing dispatched 16 C-119s cations, consolidated aircraft maintenance at supply. It was soon realized that these suppl functions could operate better at the local leaf providing more immediate and relevant sevio supplies on gravel airstrips at remote sites north Retween December 1962 and January 1961

a plethora of 900-series groups were estalished at each base with an operating tadio squadron. Each 900-series group was assigned a tactical squadron and a numberal support squadrons or flights. A listing of these

Beehive Group

One aircraft lived up to its unit's name dutie mid-lune 1964, C-119G-36-FA, s/n 53-500 from the 945th TCG at Hill AFB gained son notoriety when a swarm of bees took overfit cockpit. A local beekeeper had to be called a to remove the hive that had developed about

the co-pilot's window. Project Drag Net Mission

The 73rd TCS, 932nd TCG at Scott AFB, ILva equipped with a number of C-119Fs at

alfetta (2007)

The abovation C. 1180-SeP A. u. to 32-7860, was longraphised aft by the May, C. Al ariport on 10 (agri 1981. Mise the nose number 689A, oldering that there was another aircraft with to same last three digits. "Hamore before flight was also as three digits." Hamore before flight same last three digits. "Hamore before flight same and three digits." Hamore before flight same and three digits. "Hamore before flight same and s

C119Gs. Several of the aircraft were equipped with beavertail doors and equipment for the space recovery of parachuse former capsules and inlight recovery of objects from the surton. This secondary mission for the unit had been pioneered under Project. Drag Net by SIG's 458th TCW during 1955 and 1956.

Operation Provent Pack Library 1 and 1 and

The remainder of the 2nd Marine Division at Camp Lejune and the 2nd Marine Air Wing from Dery Point flew to the Dominican Republic. In additor, the 82nd Airborne Division was flown in tom Ford Bragg.

CHISCFFA, sin 51-8019 from the 73rd TCS, are to reat in a farmer's field off the end of hawsy 31 at Scott AFB, IL after a series of salacetons during a post maintenance FCF. Ross of the aircraft were left in its wake. Base louily, Crash Rescue, and maintenance which are at the aircraft. A tell truck is sanding by to drain the remaining fluel from the isses aircraft. Res story on page 1999, USAF.

869.

this operation, most of the missions were flown by the Reserve C-119s. The C-119s flew 1,708 missions; while the C-123s and C-124s flew 120 and 16, respectively. Because of the volunteer efforts of AFRES personnel, a recall of the units to active duty was not necessary. The arifft lasted from 30 April to 5 July 1965.

Offshore Missions

Orthodor ankselson.

Orthodor

Until the C-119s left the Reserve inventory in March 1972, they few in support of Military Air-III Command (Molt), the successor to MATS in January 1966, operations. This support to MATS in Jonaton 1966, operations. This support has sion did not go without notice. In March 1966, Gen Howell M Esses, MAC commander, stated: "...Let me also take this opportunity to comment the real job the Air Force Reserve C-119s

Get in hower in Zeise, ninc continuate et satero.

"Let me also take this opportunity to commend the real job the Air Force Reserve C-119s have been doing for us in the past six months.

Their mission in support of MAC fulfilled a sizable portion of near offshore responsibilities and accounted for almost 100% support of the recent arifit requirements to the Dominican Republic."

Reserve Training for the USAF

The 5146 Tachcal Arint Wing had moved from the small congested base at Mitchel AFB, NY, to McGuire AFB, NJ, on 15 March 1961. In addition to normal Reserve training, the wing performed routine missions for the Military Air Transport Service (MATS) and then Military Air lift Command (MAC) after the USAF organiza-





Voe-three-ship formations were later replaced by the off-set in-trail (echolos left or right) formation. High density drops tended to steal air from adjacent parachutes. Only one of the three aircraft had insignal Red Arcitic trim. Note the the prop warning line wrapped completely under the halilos of these aircraft LISAF Posterre

please make another approach so that we as assure the equipment is functioning propeyi. We obliged, alboit a bit green around the pig-The old master made the approach as stroots as a talior threading a needle. We were on pisstope and on gidle path, and had we landed it would have been on the numbers. The sergent thanked us for the opportunity to check out its equipment and we were sure some special traiing resulted upon our departure.

We lumbered back to Scot AFB in a swell, and semi-diazed condition. The flight lumber remained unopened. After landing we taxed the ramp and shut down. For verifision, the cocipit windows were opened as was the rangialors' blatter. About a half an hour later the unstable crew gingerly stepped off the airost and headed for base operations. A Coke provided instant blood sugar and stabilized the queasy stomachs'.

and flight crews from the South Vietnamese Air Force, and maintenance personnel from the Royal Hellenic Air Force between 10 August and 18 December 1967. Combat crew training for active USAF per-

Combat crew training for active USAF personnel was initiated at Clinton County AFB. OH. on 1 April 1968. The Combat Crew Training Squadron (Provisional) was attached to the 302nd TAW for this function. They provided Phase I (transition) training on the AC-119G gunship for instructor crews and maintenance personnel providing a pineline of personnel for TAC's Special Air Warfare Center, Op 1 July 1968, this provisional unit was redesignated as the 1st Combat Crew Training Squadron (CCTS). The unit was again redesignated as on 1 January 1970, in keeping with TAC's policy that all its training squadrons be known as TATSs. When Clinton County AFB closed on 20 June 1971, the 1st TATS relocated to Lockbourne AFB, OH, Retween 1969 and 1973, the 1st TATS had trained 2.490 flying personnel (451 pilots, 264 navigators, and 202 flight engineers) and 1,573 maintenance personnel. In addition to the gunship instruction they trained foreign nationals from Ethiopia, Jordan, Morocco, and South Vietnam. The 1st TATS had flown 14 159 8 accident free hours while performing this training.

Springfield Shuffle

Reservists did not engage in whimsical flights of fancy; they trained under a variety of conditions. One Saturday a crew took a 73rd TCS C-119 up for a routine training mission. 'After a mid moming take-off they flew several navigaSpringfield, It to shoot some practice ground controlled approaches (GCAs) at the field. The unit operated Republic F-48F Thurdestreaks. GCAs were a normal part of military fying in which a ground controller, utilizing ground-based reader equipment, would iterately task a pilot down to the runnery during adverse waither conditions. This was no easy task and controller to the controller of the state of the state of the controller of the state of the state of the controller of the state of the state of the controller of the state of the state of the state of the controller of the state of the state

'Our C-119 made a number of low approaches over the Illinois countryside. It was in July 1963 and the thermals were performing marvelously. Each plot of farmer's field with its differing vegetation offered varying degrees of by the dust from the fields. Trying to perform a smooth, consistent rate of descent to the end of the runway under these mid-day conditions was extremely taxing on the flight crew. Fortunately to occupy a seat in the capacious cockpit of the aircraft. The controller brought us down the glideslope at a more than acceptable rate; however he consistently placed us 500ft to the left or right of the runway centerline. Each approach became more unsetting - we flew as directed. but never hit the mark. Coupled with the heat and the thermals that buffeted the aircraft, the crew actually began to sweat and become queasy. Airsickness in seasoned flight crews is rare; but, given the proper conditions, no one is immune. Enough was enough and we called to break off the insanity. Suddenly a new voice came up on the radio - This is master sergeant

. I had a student controller on. Would you

Morale Airlifts
In addition to the AFRES strategic airlift missions.

the Reservists flew a pair of morale arits -Operation Christmas Star in 1965 and Operation Combat Leave in 1966. CONAC coordinated and conducted Opera-

tion Christmas Star during November and December 1965. Milary units, civilian service organizations, and private clitzens contribute Christmas gifts to US servicemen in Southest Asia and Alaska. Of the 469-11 tons of case delivered during Operation Christmas Star. AFRES units accounted for 67.18 tons while the ANG delivered 401.93 tons with their large.

Boeing MC-97 Stratofreighters. Triggered by a massive labor strike against five major US airlines, CONAC began Opention Combat / eave that began on 9 July 1986 With servicemen enroute to or from Southest Asia given priority, 122,863 servicemen wer airlifted under this operation that lasted for 61 days. AFRES units employed C-119s, C-124 HC-97s, C-47, and a single HLI-16 during from ation Combat Leave, when 6.638 hours and 2,774 missions were flown to airlift 44,917 pm sengers. While the AFRES flew 36.5% of these missions, the balance were performed by the ANG, MAC and TAC, During Operation Combin Leave, five AFRES air terminal squadrors later redesignated aerial port squadrons) provide continuous support at Travis AFB, CA This activity spawned employment of all 12 air teminal squadrons performing their annual traing at MAC bases to help that command redus

The AFRES Air Terminal Squadrons per formed their training at these bases in support of Operation Combat Leave Canned

its airlift backlon.

C-199-GEFA, sin S3-3157, from the 349th TCW, sixkamed the 'Golden Galet Wing', was plotographed over a drop zone near Beale AFB, CL its only distinctive markings were the full six eag and the daygle orange trim. UM 16700AC

JR. SC. In the foreground, replete with its sign carage nees and wing insignia, is C119C4A, as 52-5945. Next in line, with the stryla brin but devoid of a white cap and wing signia, is C-119C-54-A, as 52-7635. The last is a scratt are C-119C-54A, as 46-225, and C119C-76-A, is 51-5255; both accraft had been oppressed to the C-119G standard. Just Thir institution via N E Taylor.

Base

Travis AFB, CA Hickam AFB, HI McQuire AFB, NJ Charleston AFB, SC

Class A Accident

C19CF-FA, sin 51-8019, had undergone its 2nd periodic inspection and was dispatched an aminum crew for a Functional Checklight (FCF) on 17 April 1996. The FCF was degred to check out the aircraft prior to tisses for normal operations. The aircraft was singled to the 73rd TCS, 932nd TCG, 434th TMD teaned its 5cm 4FFI Illinois.

Mil Leroy Kinzel instructed Capt Van McNeil is prelight the aircraft while he received the RF data from Quality Control, filed the flight plan and computed the performance data. The pass weight at take-off was 55,006 lb.

The Start Engines, Taxi, and Runup Checktes were performed without any special note. lest an uneventful take-off and climbout to the aspred FCF area were completed. The crew performed several checks at an altitude of

5000t with satisfactory results.

Seeguerly Maj Krizse feathered the No.2 give a part of the FCP. With the right propier in the full feather, the prop required 15 keys and 16 keys feet in the full feather, the prop required 15 keys and feather is full increases, there to low a feather is full increased 120 keys feather increases in the feather increase in the feather increases in the feather increase in

Ispaceonfinued to windmill then settled into stame in about four for the minutes. May finzed declared an emergency and sured to Scott for immediate termination of talk the requested a straight in approach sharing 31. At 1040 hours GST the tower and the aircraft to flow for the things of the straight of the straight





from the FCF area direct to the fold. Both Phase I and Phase I Decemed Proceedists were completed and followed by the Before Landing Completed and Sollowed by the Before Landing Control of the Sollowed Dy the Before Landing Control of the Sollowed Dy the Sollowed Direct Landing Control of the Sollowed Dy the Sollowed Landing Control of the Sollowed Landing Control work prescribed to 150° at 20° and 150° at 20° at 20° at 10° at 20° a

While approaching the perimeter of the field, the accrual was fining between 1,000 and 1,500ft carrying an indicated singued of 13,500ft carrying an indicated singued of 135 whote. The second approach was sightly higher than normal with a 150-155 knot calibrated anyspeed May Kircal estimated the touchdown point would have been near the touchdown the near the touchdown point would have been near the touchdown the near the touchdown point would have been according to the touchdown the near the touchdown the near t

McNeil's instrument panel. Maj Kinzel called for a go-around.

During the transition from a high rate of descent to level flight for go-around, the airspeed remained around 130-132 knots indicated. Capt McNeil raised the flaps from 40° to

20" and then reached for the gear up switch. The aircraft struck the runway and slid off the end into a grassy field. A fire that ensued after impact was contained by base crash and rescue crews. Miraculously, the only injury was to SSct John Brown. (See photo on page 107).

FCF crew assigned to C-119CF-FA, s/n 51-8019 on 17 April 1966.

 Name
 Assigned Duty
 Rating

 Maj Leroy A Kimzel
 932nd Materiel Sqn

 Asst Maint Officer
 Comm

 Capt Van D McNeil
 73nd TCS Line Plot
 Plot

Reserve Bill of Rights

Until 1968, CONAC managed the Air Force Reserve field program. Public Law 90-168 established the new Air Force Reserve, as a Separate Operating Agency, on 1 August 1968, replacing CONAC. During its existence as a 3-2 separate

> Fairchild C-82 & C-119 109 alfetta (2007)



the largest and most diverse such organization. In 1997 the Reserve became a Major Air Command for the first time. Known as the Reserve Bill of Rights, the new law directed that management of the Air Force Reserve would be by key Reservists. The new organization, headquartered at Robins AFB, GA, was headed by Mai Gen Rollin B Moore Jr. Gen Moore had been the troop carrier commander of Exercise Bright StariPine Cone III in August 1960.

Operating Agency, the Air Force Reserve was

Exercise Exotic Dancer II

Base

During May and June 1969, 97 C-119s and 57 C-124s from the AFRES participated in Exercise Exotic Dancer II in Puerto Rico, an operation conducted by the unified Atlantic Command (I ANTCOM). Operations were conducted around-the-clock while living under field conditions. Tropical heat and rain added

Over 31 000 AFRES personnel from these units participated in the Exercise Exotic Dencer II.

Aircraft

94th MAW	Hanscom AFB, MA	C-124
302nd TAW	Lockbourne AFB, OH	C-119
403rd TAW	Sethidge AFB, MI	C-119
433rd TAW	Kelly AFB, TX	C-119
440th TAW	Gen Mitchell Field, WI	C-119
442nd MAW	Richards-Gebaur AFB, MO	C-124
445th MAW	Dobbins AFB, GA	C-124
449th TAW	Ellington AFB, TX	C-119
459th MAW	Andrews AFB, MD	C-124
512th MAW	Carswell AFB, TX	C-124
514th MAW	McGuire AFB, NJ	C-119/C-124

D-Day, where a formation of 45 C-119s flawlessly dropped 70 tons of heavy equipment within the drop zone. Gen William W Momver.

C-119C-20-FA, sin 49-0157, operated with the Reserves and was retired to Davis-Monthan in 1968. The MASDC Reclamation Number, CJ112. appeared on the nose. Sealant was applied around the cocknit windows and door hinges. To the rear is a C-97. H S Gann

and stated: 'The C-119 drop was tremendous Its obvious to me that these Reserve Forces were really peaked for this exercise. The formation, the air discipline and the way that the carno was nut on the tarnet was an outstand-

ing display of professionalism

Admiral Ephraim P Holmes, USN, was the overall exercise commander. He too observed the significant part played by the AFRES and ANG personnel stating: The efforts of the Air Force Reserve aircrews and support personnel were a major contribution to the success of the of Joint Exercise Exotic Dancer II. The heavy equipment airdrop was accomplished in an exemplary manner. The effort of your command in support of the deployment/redeploy-

ment phases was a most significant contribution." During the exercise AFRES pirtiff crows were credited with accruing just under 3,700 flying hours, and airlifting more than 1,200 tons of

cargo and 1,200 passengers The Puerto Rico ANG's 156th TFW employed ing force during the mock war. They flew 74 sorties and were credited with destroying the and 10 shins. In addition they were credited

with destroying or damaging some of the aircraft on the ground and anti-aircraft sites. Exercise Exotic Dancer II provided realistic training with a unified force from the Army Navy, Marine Corps, and Air Force, While no winner was declared, the joint operation expe-

rience proved invaluable.

C-119G-FA s/n 51-8059 flow with the AERES and carried the AEOUA ribbon on the vertical tail. She was sent to Davis-Monthan AEB A7 on 12 December 1969, then to Kolar, Inc. in Tucses for scrap on 24 Eabruary 1976, H S Good

OPERATIONAL SUCCESS

The Air Force Reserve is made up of many experienced prior service personnel in addition, those in any given unit tend to remain for a greater number of years as opposed to the four or five-year active duty tour for an individual attending a technical school and then seeing in an operational unit. The C-119 Flying Boxcars were in the Air Force Reserve inventory from 1951 until 1972 - Jonger than a career for many of the nersonnel. As a result, the main tenance technicians were better able to core with the idiosyncrasies of the aircraft and the flight crews were better able to make the arnlane perform Consequently the Reserves had a high degree of operational success with

The last C-119 Flying Boxcar left the Reserves on 3 March 1973. At its peak in December 1962, a total of 669 of the airnlane. were in the Reserve inventory. During its 19 years with the Reserves, the C-119s had flown at least 1.282,360 hours. In the summer of 1960, an Air Force Reserve general officerled a force of over 500 C-119s into the war name. known as Operation Bright Star/Pine Core III. Beginning in 1962. Reserve C-119s supported the NASA space program. During the last file years of that the C-119s served with the Reserves, one squadron conducted Phase transition training in the airplane for instructor US regular and reserve forces as well as fail eign nationals. The C-119s and C-124s were phased out of

the Reserve inventory and a new form d reserve operation came into being. This was the Associate program in which the Research personnel fly and maintain aircraft owned by co-located Regular Air Force units. The mantenance personnel work shoulder to should with their active duty counterparts. Today be flight crews are made up of all Regular Ar Force, all Reserve, or a combination theredal performing a common mission in airlift.



Air National Guard Flying Boxcars

Ar National Guard (ANG) units, assigned to the various states traditionally were given fighter. Setter-homber or attack missions. A new missin was given to a number of ANG units in 1957, this being aeromedical transport. The airgalt provided for this mission were MC-119Js with the flight-onerable doors. This mission lasted for five to six years until the C-119s were replaced by the quieter Lockheed C-121 Super

Biefy several ANG units served as troop rarriers until they were redesignated as air commando/special operations units. These ING squadrone flow the C-119C C-119G and C119, series aircraft. Serving in these capacites the C-119s were in the ANG inventory

between 1958 and 1975 The first ANG Flying Boxcar to retire to Davis-Monthan AFB, AZ, was a C-119J, serial number 633213 from the 102nd Aeromedical Transant Squadron, NY-ANG. The aircraft arrived on It August 1960. The last of these ANG aircraft to retire was C-119L, serial number 53-8154, ton the 130th Special Operations Squadron. W-ANG on 27 September 1975. This airplane seeved a civil registry and became N4999P owned by Starbird Inc in Reno, NV.

JEROMEDICAL AIRLIET Rumors began during the mid-1950s, that some ANG fighter units would transition into tereports: with the C-97 Stratofreighter being excipted as the most probable. The seastred fighter pilots were appalled by the noise. and loss of several hundred knots of airmed Difficulties with the initial transition from letters to the lumbering four-engined C-97s. se thought to making the change easier by sm the C-119 as an interim aircraft. The old streethat 'Sobter nilots can do anything' got a

nilots began transitioning into the C-119. Some of the fighter pilots became airsick after several hours in the air and had to use the driftmeter in the floor to cet their hearings. Another major stumbling block for the fighter pilots was the concept of crew coordination. With the WY-ANG, many of the older fighter pilots transferred to the CO-ANG that was flying North American F-861 Salves at the time. This solved half of the problem. A blessing in disquise was the fact that the CO-ANG had a number of vounger fighter pilots who were looking forward to building time to get with an airline. The latter group transferred to the Wyoming ANG and a multitude of problems were solved.

Nine of the 12 ANG units equipped with the C-119s operated between 1957 and 1963. These units transitioned from fighters to the C-119, resulting in an increase in manning for each of the flightcrew positions. An aeromed-

ical airlift flight, consisting of one flight nurse and two medical technicians per aircrew was also added to the unit. With the advent of the C.119s the traditional 'weekend warrior' status of these units changed to where the crews could bid for particular missions that better suited them as individuals with their civilian inhs yet hart the arided benefit of making the unit a year-round operation for augmenting the Regular Air Force, Live-patient training from the home bases was not performed because the C-119 was considered unsuitable for a neace.

156th Aeromedical Airlift Squadron

158th Aeromedical Aidiff Squadron, NC-ANG was based at the Douglas Municipal Airport. On 1 January 1961, the squadron gained its first C-119C. This new aeromedical evacuation



Daing April 1973, the ANG deployed C-119s to Robert Gray Army Air Field, TX for Exercise Salant Nand, a joint forces operation. The ANG tells keep two sorties in the air for 24 hours ander on alert status. Note the Army Hueys but shared the ramp, USAF K54581

GHM, sin 53-3186, from the 143rd SOS, 10d 50G, RI ANG, was undergoing engine mintenance in June 1973, at Providence, RI, An ING Misutemen insignia was applied to the fins. healroraft had previously served as a C-119G with the 68th TAS, 433rd TAW, AFRES, She was mind in June 1975, T Panopalis



Fair Mid C-82 & C-119 111 alfetta (2007)







In contrast to aircraft 53-8073 is C-1196.53-7837 with its overall Aircraft Gray and white cap finish. The lower in-spar wing surfaces are painted black. Entire 'power eggs' from C-121 Constellations replaced the formar R-380 engine package on these aircraft. To the eart is an EA-3D from Replacement Air Group CVG-6. Vol. T Parapode 1

Operated by the 129th SOS, CA ANG, C-119G-8t KM, xin 53-8049, was taxying at Hayward, CA, thas a natural motal finish, white cap, stoped cheatiline, and gray anti-corrosion finish on the belly. The 129th SOG insignal appears above the entry door. Lt Col JJ Craddick

Converted to a C-119L, x/n 53-8076 had last served with the 129th 50S, CA ANG, based at Hayward, CA, before retiring to MASDC in Mart 1975. The aircraft has a white cap, silver painted tower haselage, and Aircraft Gray applied to the booms and empennage. An ANG Minuteness insignia and CALIF are applied to the fits, \$he became NB506A. If H Brower





to 800 personnel. An accelerated recruitry campaign garnered the squadron 30 nuss and 60 aeromedical technicians. In 1962 the unit constructed nurses' quarters and a set training hospital to perform its new mission.

The C-119 was not the right airplane for his

training hospital to perform its new mission.
The C-119 was not the right airplane for the mission, and in 1962 the squadron began to sitioning into Lockheed C-121 Super Constitutions. The last C-119 was phased out in that see.

167th Aeromedical Transport Squares Previously known as the 167th Tactical Fights Squadron, equipped with F-86Hs, the unit was redesignated the 167th Aeromedical Transport Squadron (ATS) on 1 April 1961. The 1679 ATS was assigned to the WV-ANG and was stational at Martinsburg, WV. With its new aeromedol role, there was a mass exodus of fighter pital However, the unit added 22 maintenance per sonnel, 16 flight nurses, and 31 aerometol technicians to their unit manning. In addition the aeromedical mission, the squadron so tasked with routine cargo operations. The USAF dispatched a mobile training unit to the base to assist the 167th in their transition. Training was completed within three months.

The average reciprocating engine was onhauled around ten times during its service it. Engine reliability must be watched at two-est of the time spectrum. High time engines texts fail because of inherent wear of the riters 0119G36.FA s/n 53,7865, from the 129th SOS was abateographed at Van Norre. CA on A July 1971. While the fuselane is in natural metal. foish with a white cap, the booms and empensage are painted Aircraft Gray. The aircraft carries the ANG Minuteman Insignia and CALIF on the vertical fins. Rarely visible is the 129th SOS insignia aft of the cockpit. It shares the ramp with one of the unit's U-10D Helio Couriers, s/n 66-15348: an Army T-41 Mescalaro sh 65-5252; a Navy S-2; and a C-118. The Boycar was subsequently converted into a C-1191 and later retired to MASDC on 5 March 1979, Still later, the aircraft gained civil registry N850W and was operated by J D Gifford & Associates Anchorage, AK, P Remagnini via D Reminaton

C119G-36-FA, s/n S3-3216, from the 129th SOS, 129s SOG, CA AMG, was at Offset AFR, NE in May 1977. An ANO Minorehemor Insignia and CALIF were applied to the fins. She was retired the service and became N8504Y, operated by saleirs Community Service, Stebbins, AK

C1RL, sin 53-8142, from the 129th SOS, was photographed on 5 October 1973 at Hayward, C1. The dual ADF football antennas on top of the leslage had been replaced with faired elemenas. An additional URF blade antenna is also isstated. A mechanic's toolbox is parked at 10 the entry door. The aircraft is painted in

set of the set of the

C119L, a in 53-3186, was photographed while laying at Wright-Patterson AFB, OH in April 1911. The ARC Minuternam insignals was the only salt identification carried on the aircraft. A white ap and overall Aircraft Gray paint were applied to the aircraft. To trover

sats, hence a requirement for a hard-timed amoval. At the other end of the spectrum is the penature failure due generally to poor worknarship and quality control during overhaul. The 167th ATS had a rash of premature failures or engines being returned from a particular pehaul shop in Miami. FL. At one juncture. hey removed the errant engine, crated it. suffed it into a C-119, and flew to the depot. here the engine was torn down under the spenision of the maintenance personnel from to 167th. During this teardown it was noted hat the bearing tolerances were too sloppy for to engine to maintain the requisite design oil passures. Subsequent overhauled engines ton this particular depot were much better. On 2 June 1963, the 167th received its first 5121G Super Constellation, thus bringing to mend its use of the C-119. The unit was reasigned from TAC to MATS on 13 July 1963.

IRTh Aeromedical Transport Squadron h1951, the 187th FIS from the WY-ANG traded in heir F-86Ls, were redesignated the 187th IS, and obtained their MC-119Js for the somedical transport role from Cheyenne













Municipal Airport, WY. An Initial clarefrom the WA-WANG were to Mendian, MS for transition reasoning nitro the MC-118J. The filled elevation is not to the MC-118J. The filled elevation is clareful elevation of the MC-118J. The filled elevation is clareful elevation of the MC-130G origines. When the ANG unit asked the USAF for advisor, with the ANG unit asked the USAF for advisor, which was a transification of Conference and engineering of the MC-130G origines. This steam culcivity came to the realization that the density altitudes of Chrysterne san not conclude to operation of C-118G powered by the William Conference and Confere

Å USAF forly crew flew into Cheyenne, parked the unit's first C-119C on the ramp and left town. The savy ANG crews broke out the fight manuals and began their own transition course for this aircraft powered by R-4360-20-WA water-injected engines. After several days of study followed by ground runs, the lift-sal cache aircrews began flying the C-119C. The take-off performance was at best margin-

ally better. The engines were equipped with variable gened superhangers with automatic control. Therein lay the problem. The supercontrol. Therein lay the problem. The supertion of the problem of the engines of power and an engines of power and amonetasily robbing the engines of power at a critical phase during climbout. Working with Plant & Welling, the 187th AST scalled and a critical phase during climbout. Working with Plant & Welling and the engines of power position within allowing position control for shifting from low to high stage blower. This condition within allowing position extends allowing position extends to the problem of the signature of the engine of the engi

Operational data was non-existent for the no-stage blower system and Part & Whitney enisted the aid of the 167h to develop the attact (Ceres took of with hage charts with a multi-tude of blank spaces for the data that had to be annotated. For several weeks, two decicated crews recorded the mysted of data. Take-offs were performed in both low- and high-blower and the data duly annotated. Engine readings were taken under a wide variety of flott condi-

C-119L, s/n S3-8087, from the 130th SOS, 138th SOB, WY ANO, was photographed at Wright-Patterson AFB, OH in April 1974. This overalblack aircraft, with subdued markings, was employed in clandestine operations. TH Dever

9,500th with the alevraft commander hand dyles, The flight engineer sits behind both pilets, observing engine performance and ready to make any power adjustments. This whikely compass is suspended from the top of the windscreen center post. Radio selector costrist for both navigation and communications sre located on the forward portion of the overhead console. Via Mel Duncan

tions. Service ceilings were developed to assure reasonable rates of climb.

Operating a C-119 at the high attack above Wyoming was not conducive to salet, White loss of engine performance when fiving at lower attacker would have dictated abuse, down the ailing engine, crews of the 1876 would opt to continue operation under participation of the 1876 would opt to continue operation under participation of the 1876 would opt to continue operation under participation of the 1876 would not be seen to the 1876 of 18

were used to carry personnel to fight forest res.
The clamshell doors were removed, making the back end noisy and drafty. Many of the fire fight ers came from local Indian reservations. The passengers had a fantastic view of where they had been, but not where they were going.

After operating the C-1196 for about the

After operating the C-119s for about he years, the 187th ATS made a major upgrade into the Lockheed C-121 Super Constellator. These four-engined, pressurized aircraft povided a marked improvement in operating peformance and people comfort.

SPECIAL OPERATIONS

Three AND C-119 equipped squadron same in the special operations role between 156 and 1975. Their mission was to work in or from the Repulsion And 1975. Their mission was to work in or from the Regular Army, AND, and An Reserve, Proficiency requirements for the access necessitated 416 Mpring hours part and per morth in each squadron. Each at order and 57 ammen, when the consolidated seed marketenance squadron consisted of six office and 157 ammen, Each alervee comprised two toogs carrier pilots, one nexight, and

129th Troop Carrier Squadron/ Special Operations Squadron

Beginning operations as the 128th TCS, is unit was redesignated the 128th SQS. Its squadron operated C-119C/G/L aircraft for Hayward Airport between July 1963 and 197 as part of the CAANG. During the late 1984, the C-119Ls entered the squadron's inversiThis C-10F-KM, sin 51-5119, has been stated to an MC-119J with the beavertail doc. Daylo crange trim is applied to the silboons, winglitps, and nose. Poor parlamance of the Wright R-3350 engines at the high altitudes around Chrystone, WY resulted in his alternit being replaced after less than a month of operation. Via Med Duccan

MC119J-KM, a/n S1-8129, from the 145th Jamendeal Evacuation Squadron (AES), Ohio ASI, was photographed at Baltistnere, MD on 26 April 1982. The aircraft was equipped with a basevall door. The markings consist of the tall number, last these digits of the tail number on the nose paer doors, and the unit name. Daypid sampe paint is applied to the nose, wingripts, and bases. AC Solaiv via NSCH (VM Monarier and bases. AC Solaiv via NSCH (VM Monarier Commission of the control of the control of the control of the page 150 pa

SCHIANG, 4:n 51-8122, was operated by the MEARS, PA, ANG, With the 0- in the tail when, the aircraft was at heast 10 years old with was photographed at Olimstead AFIB, PA, legio arrage trim from the late 1950s-arrly Réis is applied the mose, wingstips, and wass, A red cross is painted on the fins. Only least the digits of the tail number are applied to the one of the aircraft. Four F-1018s appear the background. FC Sevly via MSQF DV Menand

Aircraft and aircrews from the 129th SOS apported Operation Bigilit between 22 December 1964 and 22 January 1965, when teay stoms inundated California and Orego. The unit airlifted medical supplies, blannas, foot, and four-wheel drive vehicles to say of the cities that were completely sur-

bunded by water In 1965, the 129th SOS was scheduled to below to Panama for their summer training came where they worked with an active cluby USAF unit, the 605th Air Commando Squadron. Composite stationed at Howard AB. Unforesen prounstances precluded this deployment. Many of the ANG members had World War of the ANG aircrew members generally outproped that of their Regular Air Force counterparts. Consequently during 1966 and 1967, the SAF sent air and pround crows to Hayward for ming with the 129th SOS. Many missions see flown to Alaska by the unit for joint maneues with the Army Special Forces units it 1975, the mission was changed to air res-

In 1975, the mission was changed to air resasend the C-119s were replaced by the Lockted C-130 Hercules and helicopters.

13th Special Operations Squadron
to 13th SQS from the WV-ANG also pertimed special operations with C-119CG,
bill68 and C-119Cs between 1965 and 1975.
the 1st addition, the squadron operated Helio
18 Super Couriers and Sikorsky H-19
obsesses.

While most members of the 130th Air Commob Squadron (ACS) were away at summer ampduring August 1983, a team went to Marstug to begin ferrying C-119s from the 5th AES is Kanawa County Airport. Between at 10 October the members of the 130th







accepted six of the 167th's C-119s. These aircraft were later all judged to be unfit for future service and were ferried to Dates-Monthan AFB, AZ for salvage, A second lot of C-119s was found to be more airworthy and found their way into the inventory of the 130th ACS. It was the first such ANG unit to train outside of the CONUS. Between 24 January and 12 of the CONUS.

February 1965, the squadron deployed to Howard Field, Panama for training, While there, the unit conducted jurgle survival, air-sea reacue, and parachute drops. Four C-119s air/filed the U-10Bs and H-19s to Panama. C-121s from the U-10Bs and H-19s to Panama. C-121s from the 167th also assisted in the air/fill. During this deployment, the 130th ACS was completely self-sustaining.



C-119G s/n 53-7884, was frequently used to drop members of the Army's Golden Knights parachute demonstration team.

The 130th ACS operated the only known ANG C-119C in Southeast-Asia camouflage paint s/n 49-156. In addition, it flew the only known overall black C-119, s/n 53-8086. The

point raduced its radar signature when used in clandestine operations. Little is known about the black bird, except that it had been converted into a C-119L at Kanawa County Airport with the help of personnel dispatched from the Warner Bobins Air Material Center, Bobins AFB, GA during the winter of 1972-1973. AddiThe 140th AES, PA ANG, flow this MC-119J, s/n 51-8167 from Spaatz Field, PA. The aircraft parries faded dayolo grange conspiscuity markings, a red cross on the tail, and only the last two digits of the tall number on the nose.

tional modifications included installation of special engine exhaust shields and mission equipment Testing was accomplished at Wright-Patterson AFB. OH. One mission for this aircraft was nocturnal crowd surveillance and control Camerae and listening devices were installed for this mission

On 8 August 1968, the 130th ACS was redesionated the 130th Special Operations Squadron (SOS)

The Guard Rureau annually recognizes its ton unit. During this period, there were 92 units in contention. The 130th SOS was recognized as the best flying unit within the Guard during 1968 and 1970

The 130th SOS retired its last C-119 in Octoher 1975. While the C-119 had a 5.000-hour design life, the 130th SOS retired one aircraft that had accrued 7,400 flying hours. This is yet another testament to the dedication and skill level of Reserve Component maintenance personnel. During 1963, the 130th SOS briefy operated six C-119Cs received from the 167h

AES. These were followed by eight C-1190s that were flown between 1963 and 1969. The 130th received nine C-119Gs, one of which was salvaged during the first year. The remaining eight C-119Gs were operated between 1969 and 1974. These aircraft were all converted to C-119Ls.

The 130th SOS was the last ANG unit to traneition out of the C-119s resulting in the unit being the butt of a number of jokes. For their last hurrah, the 130th deployed their Flying Boxcars to England in 1975 so that they could participate in field exercises in Germany. The other units were equipped with the new Lodhead C-130 Hercules. During this exercise for 130th SOS flew more tonnage and had a higher in-commission rate than any other unit parto pating in the exercise.



The 167th AFS from the WV ANG operated C-119B. s/n 48-0332. Davolo paint was carried on the airplane. While the aircraft was retroffed with dual posewheels and ventral fins, the horizontal stabilizer tip extensions were retained. In addition, the black paint in the engine exhaust areas indicates that the airdin was powered by the R-4360 engines. The airplane was eventually retired to MASDC C-119-I-KM, sin 51-R121, is being parked at NE

Floyd Rennett Field on a cold winter's day Not the sage green parkas on the ground personal These parkas were fitted with wolverine colors that did not freeze with one's breath. The aircri is in natural metal finish with a white cap and minimal markings. Dayglo orange conspisors markings are applied to the nose wingties an

Gunships

While contemplating the problems associated with a limited war and counterinsurgency operations. Ratch E Flexman, an Assistant Chief Engineer at Rell Aerosystems in Buffalo, NY became an early proponent of the gunship. On 27 December 1962. Flexman submitted a proment to Dr Goerton A Extraord with the Behavival Sciences Laboratory at Wright-Patterson AFR OH. The idea was to make an aircraft a lataral-firing platform that would fly in a pylon turn to control the effectiveness of an aircraft amanari in anti-aircraft sunnression onerators. Fleeman had worked with the man who should be credited with being the father of the suship, Gilmour Craig MacDonald, As early Is April 1942, as a first lieutenant with the 95th Cost Artillery (AA) MacDonald had proposed using civilian aircraft equipped with a side-firing antofy in a banked circle to suppress enemy signarines. In September 1961, MacDonald uss a lieutenant colonel in the USAF. He then recommended to TAC that aircraft be equipped

whether the products of punis. It is between the first point of the products of the punishment of the products of the punishment of the pu

Aircraft Conversions

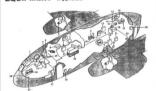
he first aircraft to be converted into operators graships were Douglas C-47s. Known as story ships, the AC-47s were linto combat in the 4th and 14th Air Commando Squadus in Docember 1967. These aircraft were supped with three 7.62mm minigums. The Gunship II program consisted of Lock-

The Gunship III program consisted of Locktes C130 Hercules aircraft with a pair of two Arman and Argam minigun, and a pair at 40m Bofors cannon. These ships, desigted as the AC-130 Spectre, were by far the sot efective of the gunships and they contracted in the USAF inventors.

A number of C-119s also were converted into cupehine with the designation of AC-119 Sharlow under Project Combat Hornet These modifications were accomplished under the Gunship III project. The AC-119s were about 25 per cent more effective than the earlier AC-47s. AC-119G had four 7 62mm miniouns installed in a basic C-119G: while the AC-119K had an additional pair of 20mm Vulcans and let pods for artifact power. A total of 26 AC-119Gs was produced between 21 May and 22 October 1968. Another 26 aircraft were converted into AC-119Ks between 14 October 1968 and 31 March 1969 These conversions were accomnlished by the Fairchild-Hiller Cornoration at their St Augustine, FL facility.

The AC-119G Shadow was modified to incorporate the installation of four MYI L470/4 module 7.62mm guns, a LAU-74/A flare launcher, fire control computer, lead computing optical ounsight, fire control display, night observation sight (NOS), illuminator, and addiment. Armor plating was added in the floor in critical areas only so as to control the weight of the aircraft. The existing Solar APP was replaced by a 60 KvA Garrett Industries auxiljary nower unit (APLI), the latter being installed in the cargo compartment on the right side. New ducting was provided for the APU air inlet and exhaust outlet. The design gross weight of the airniane was 64 000 lb. The basic crew consisted of a pilot, co-pilot, pavigator/safety offi-

LOCATION OF ELECTRICAL EQUIPMENT (Typical)



1. OVERWINDER PARMET.

OVERWINDER PARMET.

A RADIO AMENTON BOX NO. 3

A RADIO AMENTON BOX NO. 3

THE PARMET PARMET.

THE PARMET PARMET.

THE PARMET.

A RADIO COMMETCH.

THE PARMET.

A RADIO COMMETCH.

THE PARMET.

A RECORD OF THE PARMET.

THE PARMET.

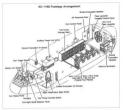
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UHF OF JUNCTION BOX
BOMITION BUS BOX
EXTERNAL POWER RECEPTACLES
PILOT'S ATTITUDE AND STRECTIONAL INDICATOR
ADI CONTROLLER

Istal electrical equipment locations on the





General arrangement of operational equipment installed in the AC-119G (left) and the AC-119K (right).

cer, flight mechanic, illuminator operator, two to gunners, and the NOS operator.

gramman of the state of th

Aircraft	Endurance	Max TOW	Engine-Out Clin
AC-47	4.5 hours		
AC-119G	6.5 hours	64,000 lb	*
AC-119K	5.0 hours	80.400 lb	500 FPM
10 1001	0.5 hours	104 000 h	AND DOM

* Unsatisfactory at combat gross weight.

The AC-119K Stinger was made from the C-119G brought up to the AC-119G standard and then further modified. A pair of 2,850-lbst General Flectric JB5-GF-17 turbolets were added under the wings. A pair of M61A1 20mm Vulcans were added. The Texas Instruments AN/AAD-4 FLIR was installed along with a Motorola AN/APQ-133 side-looking beacon tracking radar, a Texas Instruments AN/APQ-136 search radar with a moving target indicator mode, and an AN/APN-147 Doppler terrain following radar. With all of these modifications, the AC-119K weighed in at 80 400 lb maximum gross ramp (ground) weight. A major weight reduction program was instituted to get the aircraft at this weight. Three-bladed Hamilton Standard propellers

A major concern arose over crew survivol in the event of a magnesium flare goings, The requirement was for the smoke of exact the goings, The requirement was for the smoke to be evacuated within 10 seconds. The AC-47 Spooly had such a system: Investore the USEP believed Facricitie's filled would have no problems added for the control of the CFI Spooly had been also such a system; therefore the USEP believed Facricitie's filled would have no problems added for such as years for the AC-118s. On the AC-118s. On the CFI Spooly had been also such as years for the AC-118s. On the AC-118s. On the CFI Spooly had been also such as years for the AC-118s. On the AC-118s of the AC

tantly the contractor made the requisite adjustments. The system consisted of a set of air scoops in the forward cabin and spoilers in the aft tuselage. Installation of this simple fix ended 26 months of strained relations between the ISAE and Enrichtid-Hiller over this matter.

The first AC-119G, serial number 53-8069, was accepted by the USAF at Robins AFB, Georgia on 19 May 1968. The first AC-119K, serial number 53-7877, was accepted in the same year.

AC-119 Missions AC-119s were canable of performing the fol-

lowing seven missions:

Armed Reconnaissance: The AC-119Ks would be assigned an area to search and have the authority to strike valid targets discovered within the area.

Close Support: The AC-119s could provide

Close Support. The AC-1196 could provide supporting five and illumination for estendied speriods to ground units and static positions. These operations required resibles communications with friendly ground forces. Offset distances in excess of 3000 melests were not clude preceded. After making a few firing passes, pilotes had to reset their gyro compass to pre-clude precession in the instrument from affecting both effects of the procession in the instrument from affecting both offset filling and wind correction. The ANJAPP-115 radax and offset computer purint-cet the AC-1196 to deliver throoper under the CH-196 to the CH-1

advente weather conditions with low cellings. Convey Excost These insistors were preplanned between both the gunstip crew wind the convey command. The AC-19 was the the convey command. The AC-19 was the irregular patterns over and alread of the convey, while staying earl for evidence of enemy activity, movement, or possible amboth. Plots marrianand soper firm gailtudes amboth. Plots and the properties of the convey was large, the convey was large, the convey of the convey was large, the convey of the convey was large, the convey of the convey of the convey large deeper to the convey for the convey conducting without por transparent producting without producting ahip was working with a forward air controle (FAC), both the aircree and FAC would use in same ratio frequency. If possible, the concommander would also monitor the same as convoya as to be immediately halled by all convoy ass to be immediately halled by sale somice flare, or other preplanned briefer is nation with the convoy commander before air during attacks on detected or suppose, uniform of the proposition of the uniform of the proposition. The same procedure uniformed processions. The same procedure uniformed processions. The same procedure and the procession of procession of

applied in the case of a surprise ambush by the enemy. Clearance to fire came from either the FAC or the convoy commander. The gumecommander would assess the enemy stempt and defenses, and consider asking for suppir from other strike aircraft in the area that is F-105 or F-4). When operating at right will blacked-out convoy or if the convoy was reingly under heavy follage, homing systemsoul.

be employed. Train Escort: While basically the same as convoy escort, special considerations hat to be given to train escort. Trains are particular vulnerable to guerrilla activity. Depending up the speed and size of the train its stooping to:

tence is time-consuming.

Marial Escott: Flodilias of barges or sell native boats made up water convoys thatoal have required gunship escott. While the produces are similar to convoy and train exit special consideration was given to the names of the waterway and density of the foliar

along the banks.

Airborne lituminator: The airborne litumination of sould be used for battlefield illumination of as a light source for sensor operation of visual flying. Other aircraft could also find to make illuminated by the punishin.

Flare Operations: Flare illumination was a considered to be a primary mission for the paships. Usually only a limited number of lawwere carried on each flight. Flares were used support on-board sengers, and picts in us-



ANTENNAS

ŧ.	GLIDE SLOPE APPROACH, ANIASN 18	
	VHF COMMAND, WILCOX 807A	

New Flares could also be used to illuminate turiets for ground forces or other strike aircraft. The LAU-74/A flare dispenser could accommosate up to 24 flares. It was recommended that te suncher be used instead of hand-throwing the flares. The latter procedure could result in personnel injury and/or aircraft damage due to radvertent actuation, malfunction, or failure to dear the drop exit.

Shadow Evaluation The 71st Tactical Airlift Squadron, 434th TactiglArift Wing, a Reserve unit at Bakalar AFB. N was activated on 13 May 1968. By 15 June 1968, the squadron and its 18 C-119Gs moved Blackbourne AFB. OH, for training in gunship spendions by the 4413th Combat Craw TrainreSquadron (CCTS). Upon this relocation, the That Troop Carrier Squadron (TCS) was redesguted as the 71st Air Commando Squadron ACSI. In less than a month, on 8 July 1968. he were again redesignated as the 71st Speof Operations Squadron (SOS). By 21 loember the unit had 24 fully formed crews. Their deployment was delayed as Headquarus USAF mulled over whether to send the \$5,319Gs into combat or wait until the newer \$5119Ks were available. The decision came AC-119Gs would deploy to Southeast Asia. On 5 December 1968, Lt Col. John W Lewis and his. crew departed Lockbourne AFB for Nha Trang AB. South Vietnam. Formal orders were received, and on 9 December other elements of the 71st hoarded Lockhood C-141 Starlifters elements of the unit had departed Lockbourne. An enroute stop in the Philippines allowed aircrews to attend the PACAF Jungle Survival School (affectionately called the snake school). The 71st SOS's higher headquarters would become the 14th Special Operations Wing (SOW) at Nha Trang AB.

The initial aircraft were flown from Lockbourne AFB to the Fairchild-Hiller plant in St Augustine. FL to prepare the aircraft for the long terry flight to South Vietnam. The major modifications consisted of removal of the four 7.6mm miniguns and mounts, and installation

of a 500-gallon auxiliary fuel tank. With 12 years of experience with the C-119s, the Reservists developed their own ferry kits, allowing them to deploy with relative ease. Engine changes were required at Tinker AFB, OK and Wake Island for two of the airplanes. The ferry route was around 9 800 nautical miles long, requiring 10 leas, and 72 flight hours; and made the following stops: England AFB, LA: March AFB, CA: McClellan AER CA: McChord AER WA: Elmendorf AFR AK: NAS Adak AK: Midway Island: Wake Island: Andersen AFB. Guam: Clark AFB. Philippines: and Nha Trang AB. Republic of Vietnam. Deployment data for the

/	Departure Date	Arrival Date	Aircraft S/N
1	2 Dec 1968	12 Jan 1969	53-8155
A COM	4 Dec 1968	26 Jan 1969	53-7852
11 111	5 Dec 1968	25 Jan 1969	53-3192
Wisco	5 Dec 1968	27 Jan 1969	53-3189
13:11	6 Dec 1968	27 Jan 1967	53-8069
	6 Dec 1968	30 Dec 1969	53-3178
	10 Dec 1968	30 Dec 1969	53-5905
	10 Dec 1968		53-3136
	18 Dec 1968	11 Jan 1969	52-5907
	18 Dec 1968	8 Jan 1969	52-5927
	26 Dec 1968	20 Jan 1969	52-5942
	7 Jan 1969	22 Jan 1969	52-5925
4 DER	13 Jan 1969	13 Jan 1969	52-5938
	14 Jan 1969		53-7851
AC 136	22 Jan 1969	18 Feb 1969	52-3205
ANDANIC21 DANG-27	24 Jan 1969		53-3170
A	29 Jan 1969	2 Mar 1969	53-7848
			52-5892

Lt Col Donald Beyl, Commander of the 930th Consolidated Aircraft Maintenance Squadron at Lockbourne AFB. OH, was assigned as the Advanced Echelon (ADVON) commander when the 71st SOS deployed to Southeast

The 71st SOS operated out of three locations in South Vietnam listed in the table below.

The AC-119G Shadow would navigate to a patrol box via TACAN with a ground radar backup. Within the patrol box, a Shadow would maintain a 500ft terrain clearance while searching for a target. Upon acquisition, the target a controlling agency with a request to fire. Upon gaining clearance, the Shadow would climb to 3,500ft, bank into a left orbit, and com-

Initial operations with the AC-119Gs were flown by the 71st SOS. Advanced elements of

Base	Unit	No of Aircraft	Commander	Operations Officer
Nha Trang AB	71st SOS HQ		Lt Col Donald F Beyl	
	A Flight	5	Lt Col James E Pyle	Lt Col Warren L Johnson
Phan Rang AB	B Flight	6	Lt Col William A Long	Lt Col Earl W Scott
Tan Son Nhut AB	C-Flight	5	Lt Col Donald F Beyl	Lt Col Robert S Mulgrew
				scanned





the 71st SOS arrived in country by mid-December 1968. The first aircraft arrived on 27

The first live-fire mission with the AC-119G was flown as a demonstration off the coast of Nha Trang. The crew of nine consisted of five officers, the flight engineer, illuminator operator, and two gunners. In addition, six observers on the aircraft brought the total to 15 souls on board. For this demonstration, a small oneman life raft was dropped into the water. A penetration was made into the firing orbit. Only two of the miniguns were on line as Lt Col Donald Beyl locked onto the target. With the first burst, the raft was shredded.

The 71st SOS began operational sorties and combat evaluation that were accomplished between 5 January and 8 March 1969. Lt Col Donald F Beyl was the aircraft commander of AC-119G, 52-5907, when it made its debut in combat on 5 January as Shadow 41. The aircraft lifted off at 2226 hours, flew a 4:28-hour mission, and expended 1,300 rounds of Officer crew aboard Shadow 41 for both the

demonstration flight and the first combat mission on January 1971 were Lt Col Harold E Mitchell, Instructor Pilot; Lt Col Donald F Beyl. Pilot: Mai Herman A Heuss. Co-pilot: Capt William R Joyce Jr. Navigator: Capt Robert Busse, Student Navigator.

7.62mm minigun ammunition.

Lt Col Mitchell, the 14th SOW Assistant Director of Operations, was not rated in the AC-119G, but had prior C-119 experience that

This was the business side of the four side. firing 7.62mm miniguns installed in the left side of both the AC-119Gs and AC-119Ks. Each run could fire 6 000 rounds per minute. USAF

The first AC-119K was delivered to the USAF or 24 September 1968, at St Assesstine, FL. & nair of General Electric J85 jet pods were added to the aircraft. The large protuberance on the aft fuselone was the AN/APQ-133 tracking beacon.

normitted him to serve as an Instructor Pilot By way of note, he was the aircraft commander on Pelican 9 that snared the first space capsule

During the pight of 9/10 May 1969, Lt Col Fat W Scott, commander of Shadow 62, was open ating in a sector in support of ARVN troops. The command post ordered Shadow 62 to depat the area henause a R.52 Arc Light mission was scheduled for the area. A heated exchange followed over the radio as Lt Col Scott tried convincing the command post that he was protecting friendlies. Finally the command and acquiesced and the Arc Light mission was redrected to a secondary target. For their efforts that night, the crew of Shadow 62 received a Letter of Appreciation signed by Gen George \$ Brown Seventh Air Force Commander Cti William K Bush, Commander, and Col William H Ginn. Deputy Commander for Operations of the 14 SOW. The letter read in nert When placed in a unique situation. It Col Scott and his crew did not respond routinely. The instead, properly analyzed the danger to friendly ground forces and made the lad known At the risk of censure, they persided until corrective action was taken. The validity their judgment has singe been established an there can be little doubt that a potentially trade The first 71st SOS ship to sustain damage

from enemy fire was 52-5927, which picked is two bullet holes on 7 March 1959. Five ohe gunships were damaged in May. Four of theat craft received minor damage while fiving missions on 1, 6, 11 and 22 May. The most seriou damage occurred when a gunship took to rounds of 12.7mm fire that put 19 holes in the at fuselage, resulting in minor injury to an actie duty gunner fiving with the Reserve aircraft. Two instances of damage to the AC-1199

occurred while the aircraft were on the ground Minor damage was incurred by one aircs! from A Flight when it was struck by six gurd of 75mm recoilless rifle fire on 24 January An craft 52-5907 was struck by ricocheting note. fragments at Phan Rang AB on 22 February Ninety minutes later the aircraft took of a defense of its base. The aft cabin of the gunships was operate

drafty resulting in gunners and illuminator experiencing numerous head colds, threat an ear infections, and back ailments. Ther it nesses precluded them from flying on min occasions, resulting in an increased works. was to add baffles and windscreens in the aff cabin so as to afford the personnel a less drafty environment. As a result of the modifications, the time lost for related aliments decreased by

bbelief in country after the war.

In one instance, a Shadow was directed towards an outpost near Dak To. The ground unt was under fire. Enemy mortar rounds hit around the command post and probed the perimeter. When the Shadow lit up the area, the semy withdrew, without even receiving a sin-clearural from the curshfor.

Near Pteiku AB, a Shadow fired on a susseted enemy troop concentration and storage inso the state. See of 60 secondary explosions, in another instance, a Shadow aided a US lamy unit that was pinned down by enemy fire. A

Station, you made my trip home possible. One night an American doctor was operating in a South Vietnamese soldier when the compard came under enemy attack. A generation set hit and at of the lights went out. An 10-1106 few in and it up the area with its oneinto-cardiepower illuminator, exposing itself to the opterated of enemy que fire. The operanews successfully completed thanks to the

ations of the Shadow.

During six months of operation in Southeast kia, the 71st SOS left this impressive record of

Fagged Missions	1,209
Stries	1,516
Titim Rounds Expended	14,555,150
Rens Dropped	10,281
Carba Hours Flown	6.251
Entimed Hostiles Killed	682
Robble Hostiles Killed	1,104
Onlined Whicles Destroyed	43

littre leaving Southeast Asia, members of the fix SOS were awarded 117 Air Medals and re Puple Heart. In addition, nominations were the 834 Air Medals, 143 Distinguished Flying

8:45-119K firing a 7.62mm minigun.

Insiblack AC-119G, s/n 53-8087, equipped sit tree-bladed Mamilton Standard propellers in aircraft was photographed at Wrightfainson AFB, Ohio, in 1973. Note the paint miss on the dorsal fin and boom. W Clark via

t Crosses, 18 Brozze Stam, 47 Air Force Comymendation Meddas, and a second Purple Heart. The 71st SOS was also nominated for the Air Force Outstanding Unit Award. On the departure of the 71st SOS, MCI Royal N Baker, Seventh AF Commander, stated: "They've come from civilian life, worked with a new weapon system brought light the the country, and have done

a tremendous job since they've been here." On 1, June 1989, the 17th SOS was activated the United States. While the AC-119Gs per formed satisfactorily in all mission categories except forward air controlling, it was cited for being rather slow, hard to manager and yelnerable to enemy fire. The latter shortcoming prevented the AC-119G from being a good forward air control aircraft. The gross weight of the aircraft held its mission flying time to about six hours. Recause the aircraft lacked an allweather capability, it would be ineffective in foo or haze. While the target illuminator worked well, its reliability fell when it encountered maintenance problems. As a final note of its evaluation, it was recommended that the aircraft not be deployed into a high-threat environment

Regular Air Force Gunship Assignments The Shadows served with two squadrons in Southeast Asia. The 17th SOS, headquartered

at Phan Rang, operated the AC-119Gs; while the 18th SOS, also at Phan Rang, flew the AC-119Ks. The 17th and 18th SOSs along with the AC-47-equipped 4th SOS, all reported to the 14th SOW at Nha Trang, which in turn reported to Headquarters 7th Air Force at Tan Son Nhut. Each squadron had three flights that were

1969.			
Unit	Base	No of Aircraft	
17th SOS	Phan Rang	16	
A Flight	Tuy Hoe	4 AC-119G	
B Flight	Phan Bang	7 AC-119G	

CFlight	Tan Son Nhut	5 AC-119G
18th SOS	Phan Rang	12
A Flight	Da Nang	6 AC-119K
B Flight	Phu Cat	3 AC-119K
C Flight	Phan Rang	3 AC-119K

Base	No of Aircraft
Phan Rang AB, RVN	7 AC-119G/ 4 AC-1198
Phu Cat AB, RVN	5 AC-119G
Tan Son Nhut AB, RVN	5 AC-119G
Da Nano AB, RVN	9 AC-119K

3 AC-119K

Udom RTAFB. Thailand





On 29 December 1970, A Flight, 17th SOS was inactivated at Phu Cat and its personnel and aircraft were reassigned to B Flight at Phan

At the end of the year in 1970, the gunships were located as shown.

Base	No of Aircraft
Phan Rang AB, RVN	7 AC-119G
Tan Son Nhut AB, RVN	5 AC-119G
Phan Rang AB, RVN	5 AC-119G
Da Nang AB, RVN	9 AC-119K
Nakhon Phanom RTAFB, Thailand	3 AC-119K

Call Sign Commotion

The 18th SQS was given its choice of three callsigns: Gun Shy, Poor Boy, and Charle Brown. They picked the latter as the least of the evils. It was soon learned that the 366th Tactical Fighter Wing had an unused callsign: Schoper With the backing of the 14th SQW, the 18th SQS made a claim for the callsign.

Earlier, the 17th SOS had an even greate indignation bestowed upon them. They were issued the callsign Creep. A great commotion arose and the callsign was changed to Shadow, in keeping with their mission.

Command and Control

came under the Commander, United States Williamy Assistance Command. Vietnam (COMUSMACN): whereas USAF Command and Control stemmed from the Commander of the Seventh Air Force. Command flowed down through the Seventh Air Force Deputy Chief of Statel - Operations, then the Director of Combat Operations. Nat Command and Control branched to the combat wings and the Air Command and Control Combat Air Command and Control Command and Command

Air operations were planned and packaged by the Directory of Combat Operations and resulted in an Air Tasking Order (ATO) that defined: units, aircraft type, ordnance load, target(s), radio frequencies, and package routes An ABCCC that coordinated, directed, and controlled all air strikes. FACs were the on-site eyes for the ABCCC. These were the callsigns for the ABCCC.

Zone	Daylight Ops	Night Ops
Tiger Hound/Tally Ho	Hillsboro	Moonbeam
Steel Tiger/Barrel Roll	Cricket	Alley Cat



the unbia operating in ISEA.

One night an AC-119 was receiving a heay dose of AA-119 was receiving a heay dose of AA-119 was received the second at in the firing and advanced of the condition. The intelligent and advanced of the conditions are supported by the second safe and according to the second safe and second safe and second safe and second with they were are with row althort busides. Alsky Cat crimed in all with row althort busides. Alsky Cat crimed in all of the ATO. The two enterprising altmon must off the ATO. The two enterprising altmon must be that Alsky Cat was not hip to the program. In didn'thing the that Alsky Cat was not hip to the program in the that Alsky Cat was not hip to the program in the control of the ATO. The two sections are supported by the program in the section of the ATO. The two sections are supported by the program in the section and according to the according to the according to the program of the according to the according to

lets', The AAA fire ceased! AC-119G Shadow Casualties The 17th SOS experienced its first battle data

age on 6 August 1969, when four ships took hits. Another aircraft sustained .50 caliber his in one engine and the fuselage. The first 17th SOS aircraft to be lost was

Shadow 76 on 11 October 1969. The aircraft crashed on take-off from Tan Son Ninut, with six crew members being killed and the aircraft being destroyed. Another AC-119G sustained extensive dam-

age when its right landing gear collapsed or landing at Chu Lai AB. A second 17th SOS AC-119G was lost on 8

April 1970, when the aircraft crashed on taked from Tan Son Nhut AB, killing six of the eight ces members. As a result of this crash, the AF four reduced the maximum gross take off weight as cutting back on both stell and ammunitor, thereby permitting the aircraft to achieve a 150 per minute rate of climb on a single engine. Cambodian Operations

The AC-119G Shadows joined in the Duffel Big

Unit Systems Evaluation of new airborns eaument used to monitor signals from ground sisors. Between 3 April and 31 May 1900, the cunships from Tan Son Nitut AB carried portable UHF receiver that was capable of receiving, decoding, and displaying the signals and audio bransmissions. On 18 Apr. Shadow 77 detected signals that signifed nemert in a sersor field. The gunship field and 6,000 7.62mm rounds into the area. The right signals were again detected in the ser-

This top view reveals the camouflage patterns the upper surfaces of AC-1196, via \$5.9507. Bit has upper surfaces of AC-1196, via \$5.9507. Bit has filler caps appear on top of the wings. Not how the black paint wrapped up ento the all portions of the dorsal filns and vertical fins. USAF K41173

This complementary right side view of

AC-1119G, sin 52-6927, shows more of the camouflage pattern. The aircraft ws flying ner Nha Trang AB, South Vietnam, on 25 January 1969. USAF scanned







Above: This was the calling card of the AC-119s.

Sight. AC-119K, s/in 53-7850, being inspected by military and civilian personnel. To the rear was 01-104-14, air 66-13587, an FAC alroraft that typically acted as spotters for the gunships in Seatheast Asia. Seattle Museum of Flight area and another 28 500 munits were fired. The

Stadow also participated in an airstrike in the egion that night. A subsequent ground aweep meased 150 enemy dead. Seventeen more serely troops were captured, as were nine crewsered weapons and 67 individual weapons. As areast, the new equipment was recommended as attracted restallation on the AC-119s. Liberal States end South Varianness froms.

as standard installation on the AC-119s. Unled States and South Vehransense forces passed into Carribodia on 1 May 1970. They tast dual depictor, how was to show up the manufacture and the control of the passes of the control of the support to question. In articipation of the support passes are moved to Tair Son Ninut and Phan large and May 1970.

The first priority of the redeployed gunships as the support of troops engaged with the energin (Cambodia, followed in succession by only escort and armed reconnaissance. On surerus occasions AC-1196 support of theely forces under night attack resulted in the

semy deempaging. The gunships would depart on a professional professional professional professional coordinate with Army forces a claim artifery clearances. Such practices telemen secessitated the gunships making suse changes in order to avoid guns that had them shut down. With the new activity in carbodia, artifery clearances were obtained to the control of the down that the down the control takent the down the down to the down the down the control of the professional professiona

pater time over the target.
Petoleum shortages in the Cambodian capital region of Phnom Penh necessitated extra staction for both road and river convoys. An

section for both read and river corrovoys. An end excit package from all three services and excit package from all three services and the services of the services of the Mekong in An Army sight free team consisting of a emel-and-control helicopter, a pair of in Cotta helicopter gunnhips and two light neutron helicopters (LAACHells River sector 11 50th during daylight hours. This escont in cyclid between the convoy and their might be three the convoy and their



vided two UH-18s and two CV-10As (Black Ponies) for low-altitude coverage. This Navy team cycled from their command-and-control vessel anchored in the Mekong River at Tan Chau in South Vietnam. All the while, the convoy was also excorded by an AC-119G circling the convoy at 3,500ft.

Road convoys were also escorted by the Shadow ounships, either alone or with the assistance of forward air controller (FAC) aircraft. When working together a EAC aircraft would search for enemy ambush preparations along the route of the corryoy, while the gunship flew in a large elliptical orbit. On 30 June 1971, a 51truck convoy left Phnom Penh along Route 4 towards Kompong Som. Enemy movement was spotted porth of Boute 4 by a FAC aircraft. The FAC crew anticipated an ambush and requested a strike aircraft. An AC-119G was diverted for the operation. A recheck of the area by the FAC confirmed his suspicions and the ounship was cleared for an attack. The gunship opened up with 7.62mm fire that was countered from the ground. Then the AC-119G saturated the area with fire until the last truck had cleared the area.

Armed reconsistance missions by the ACT-1166 in Centrolia concentrated on trucks and vires sampans. The 7 82mm minigras on the ACT-1169 has followed in the effect on the sampans armor in July 1970, ACT-11694, with their 20mm armor percent priced and accordingly acrons one serior percent priced varies of the ACT-103 down high episions incondary rounds were ineffective. The crews of the ACT-103 doctared 7 52mm arror jesting in credit to the US Army and were able to improve them the US Army and were able to improve the safety through of authority the accounts.

marking another success for the gunships

The Cambodian area was lightly defended and small-caliber fire resulted in no gunship losses. As a result, the AC-119Gs and some AC-119Ks becan daylight interdiction.

Between 5 May and 30 June 1970, the AC-119 gunships flew 178 sorties in support of US ground operations in Cambodia. The gunships continued their support of Cambodian and South Vietnamese forces in the area between July 1970 and March 1971, destroying or damaging 609 enemy vehicles, destroying 237 sampans and damaging another 494, and killing 3,151 enemy troops.

Combat King

The ACT-194G had suffered serious delays in their convenirod use to the technical complexity of their system. One of the most critical was the development of the Teasa Instruments Grand Conference ward scoting infata Red (PUII). By the end of ACT-1956 would be delivered with or the ST of Three ACT-1956, whitch the STM, were

deployed to Southeast Asia for combat evaluation. These aircraft were forced to fly the AC-119G mission profile until the FLIR could be installed.

Laotian Operations In the beginning of 1970, an enemy offensive took a heavy toll on Meo General Vang Pao's forces in northern Laos. Consequently, with PACAF's permission the Seventh Air Force deployed AC-119Ks to Udom RTAFB. Thailand, to support Operation Barrel Roll during February's high moon phase. Three AC-119Ks. with four crews and 30 maintenance personnel left Phu Cat AB, on 15 February 1970, for a trial operation. Their mission would be armed reconnaissance along Routes 7 and 61 in Barrel Roll and secondarily to provide support to Lima sites under attack. Their first mission was flown on 17 February. Their test deployment was to be from 17-27 February. The gunship operations soon intensified to counter an enemy offensive into the Plain of Jars. At the end of the gunships' 10-day test period. Seventh Air Force ordered an extension until 2 July. The AC-119Ks significantly strengthened the Allied efforts in northern Laos. By 21 March the Stinger strength increased to four aircraft.

seven crews, and 40 maintenance personnel





Operation Lam Son 719

a major ground offensive in the Laotian panhan-

dle between 30 January and 24 March 1971.

Dubbed Operation Lam Son 719, the operation

was designed to cut the enemy's supply lines.

heavy. One night an AC-119K and an OV-10A

FAC were teamed together. The gunship

began taking on heavy AAA fire. The FAC

called in and said he would bring his 'death ray'

into action. The FAC turned on his landing

lights and beamed them on the offending anti-

gircraft run. It was a known fact that the enemy

monitored our air-to-air radio communications.

The our silenced itself and the ourship spotted

the gun crew dusting themselves off after hav-

On the night of 28 February, an AC-119K with

callsign Stinger 04 was assigned to fly an

ing been hit by the 'death ray'!

Tank Busting

Enemy anti-aircraft fire was unusually quite

In June, Seventh Air Force requested that PACAF allow the nunshins to remain at Udorn RTAFR for an additional 120 days.

During Operation Barrel Roll. AC-119K Stingers were responsible for 70 per cent of the enemy trucks destroyed in eastern and later northern Laos, thus making the gunship the

number one truck-killer in the operation. During Operation Steel Tiger, the Stingers were credited with destroying 2,125 trucks during one month. The AC-119K flew four sorties per night during the operation in southern Lags. In December 1970 a single AC-119K set an

all-time record for destroying 29 trucks and damaging another 6 on one mission. During the last three months of 1970, the Stingers collectively bagged 312 trucks and damaged another 196. During the first guarter of 1971, these figures rose to 1,845 destroyed or damaged. On 28 February 1971, the Stingers were credited with destroying six PT-76 tanks

This table reveals the relative effectiveness of the three aircraft types as truck hunters.

Aircraft Trucks Destroyed Damaged Per Sortie Type

armed reconnaissance mission for an ARVN Laos. It began as a boring night and the gun-Per Truck Sighted ship crew decided to depart their orbit above the convoy and reconnoiter further down the 0.89 highway. Then they spotted a pair of hot spots moving in the same direction as the convoy 0.29 near Hill 13. There was no doubt that they were

Charlie Chasers was AC-119G, s/n 52-5892. operated by the 17th SOS from Phy Cat AB South Vietnam, This ship was photographed on 20 September 1970, N E Taylor via USAF Museum AC-119K, s/n 53-3187, as she appeared at an

open house at McClellan AFB, CA, on 7 October 1972. The tall number is changed from 0-33205 in red to AF/53 187 in white. The aircraft is devoid of any unit markings. Fresh paint obliterates the former unit insignia forward of the 'CUT HERE' marks. To the rear is C-124A-DL n/n 51-0175 from the AERES Most DW Monard

tanks. The Stinger crew called for FAC verification and got confirmation that there were two tanks on the road. Until now no tanks had been destroyed by gunships

A nearby AC-130 Spectre begged Alley Catter the target, but they were denied. The Stinger had found the target and they would have first dison it. Soon three more tanks rolled out of some trees onto the road, making five. Three more tanks were waiting at an intersection further up the road. Now there were eight tanks. The FAC made a low-level nass and determined that they were Soviet PT-76 light amphibious tanks. He

called for the Stinger to take out the tanks. The Stinger rolled into its firing orbit and marked the target with its miniguns, followed by the 20mm cannon. Next the crew opened up. with a withering barrage of a mix of armor-piero ing high explosive and miniball tracer rounds The lead tank was stopped dead and a secondary explosion followed. Then, the trailing tank was taken out, effectively boxing in the tank column. AAA became more intense and the AC-119 began rolling in and out of its orbit to avoid being hit. Soon all eight Soviet PT-76

The crew that night consisted of these personnel: Mai Earl R Glass. Pilot/Aircraft Conmander; Maj Edward J Kroon, Navigator/Sersor Operator; Maj Boyd E Phillips, Navigator/Sensor Operator: Mai Douglas A Frost, Navigator Sensor Operator: 1Lt Charles T 'Tony' Robet son Jr. Co-pilot: TSqt Herbert S Simons, Flatt Engineer; SSgt Raymond Garcia, Gunner; SSgt William O Petrie, Illuminator Operator/Scanner Sqt Thomas E Nolan, Gunner: A1C Stephanii McCloskey, Gunner,

Charles T 'Tony' Robertson retired as a new eral and CINCAMC/CINCUSTRANSCOM Unit his retirement, he was the last Regular Air Ford pilot to have flown the C-119. During Operation Lam Son 719, Spectre and

Stingers had these tank kill tallies Engagements

AC-119K	11	10
AC-130	28	14
Total	39	24

Stinger Casualties

Aircraft

The first AC-119K Stinger was lost on the right of 19 February 1970, when the aircraft crashe short of the runway at Da Nang AB, when

Kills

AC.119C s/n 53,6089, with the IH tall code, was flows by the 4413th CCTS, 4410 CCTW. Lockhourna AFR, OH. The aircraft was photographed at Langley AFB, VA, on 23 June 1970. The squadron color, vellow, annears on

both the prop buh and main near bub cap. The APII lelet and exhaust ducts annear on the side of the fuselane under the engine. D Reminoton

setuming from a combat mission. The final sporoach had gone normally until the landing near and flans were lowered about two miles put at an altitude of 500-600ft. Apparently fuel stavation caused a sudden loss of power from both the let and reciprocating engine on the left side, thereby precluding the pilot from maintaining directional control of the aircraft. While the aircraft was destroyed, all crew members miraculously escaped with only minor injuries. An AC-119K was lost, severely damaged when a 37mm round shattered the nose secfor as the aircraft worked an area a few miles north of Ban Bak, Laos. The crew was able to bring the gircraft back to Da Nago

A second AC-119K from the 18th SQS was lost on the night of 6 June 1970, when its proseller ran away shortly after take-off from Da Nen The crew safety hailard out when the sit. sting deteriorated and the aircraft crashed in

the South China Sea.

Anti-aircraft fire experienced by the AC-130 argraft led to the use of F-4s as escorts. A simfor martine was instituted for the AC-119Ks. The 366th Tactical Fighter Wing (TFW) at Da Nano provided an F-4 Phantom as a constant escort for the Stingers on their armed reconreleasing fights. At the neak of the truck-huntin season, the 366th TFW averaged six sorties.

On the night of 8 May 1970, an AC-119K Singer from Udom RTAFB was heavily damand by anti-aircraft fire. The record of its misson follows: 'Capt Alan D Milacek and his aire-man crew had been reconnoitering a heavbutefended mad section near Ban Ban Lans when they discovered, attacked, and destroyed two trucks Cant James A Russell and Capt Rorald C Jones, the sensor operators, located tree more trucks. As the aircraft banked into stark whit six enemy positions opened up with a harrance of AA fire. The co-pilot, Capt Bret A O'Brien, cleared the fighter escort for stack and the gunship circled as the F-4s worked to suppress the AA fire. Amid the heavy memy fire. Captain Milacek resumed the attack and killed another truck. At 0100, just about 2 hours into the mission. "the whole cargo compartnert lit up" as enemy rounds tore into the Binger's right wing. A "sickening right dive of te aircraft" ensued and Milacek called "Mayav Mayday, we're goin' in." He shouted orders to SSqt Adolfo Lopez Jr., the IO (Illuminator coerator), to jettison the flare launcher.

SCITER s'n 52,6910, in the markings of the 1st ION, with the AH tail code. A TAC badge appears mbe to while the wing insignia is applied to henese. RT O'Dell via MSgt DW Menard



Capt Milacek directed the entire crew to get rearly for instant hailout. As the nunshin dronned about 1 000th within seconds. Capts Milacek and O'Brien pooled their strength to pull the aircraft out of its dive. By using full-left rudder, full-left aileron, and maximum engine power on the two right engines, they regained stabilized flight. The full-engine power fueled 2-3ft exhaust flames torchlights for enemy gunners as the crippled Stinger desperately headed for friendly territory. The navinator Cant Boner F Clancy gave the correct heading but warned that they were too low to clear a range of mountains towering between them and safety. What's more, the crew discovered that fuel consumption would likely mean dry tanks before reaching base.

The crew tossed out every possible item to lighten the load and the aircraft slowly climbed to 10 000ft TSot Albert & Nash, the flight engineer reported the fuel-consumption rate had been reduced. Capt Milacek elected to land the damaged plane and when he approached the hase area he ran a careful check of the controls. He found that almost full-left rudder and aileron would allow him to keep control. With landing approach at 150 knots (normally 117 knots). Utilizing every bit of his pilot skill belanded the plane. Upon leaving the Stinger, the crew saw about one third of the right wing (a.

14ft section and aileron) had been torn off. 5 August 1971, Gen John D Ryan, USAF Chief. of Staff, presented Capt Milacek and his crew the Mackay Trophy for 'the most meritorious

flight of the year."

Mekong River Convoy Escort

During early January 1971, the American Embassy in Phnom Penh. Khmer Republic (Cambodia) expressed considerable concern over the POL shortages resulting from enemy attacks on commercial shipping vessels plying the Mekono River in Cambodia. During this period, land Route 4 from the port city of Kornnonn Som had been closed further evacerhating the situation. A request was made for convoy protection between Tan Chau, on the Vietnamese border, to Phnom Penh. The approximately 70-mile long meandering river between the two cities was within easy range of Viet Conn rockets and recoilless rifles. Depending upon the season, the width of the river was between 300 and 2,000 meters. An agreement was achieved between the US, Cambodia, and the Republic of Vietnam to provide convoy support.

Vessels between 4,000 and 6,000 tons normally plied the Mekong River, and the Defense Intelligence Agency believed that the Mekong could easily be blocked by sinking of just one of these boats. Viet Cong attacks averaged three per month; however between 17 and 30 January 1971, there were ten attacks.

To counter the threat, an armed flotilla of eleven vessels was added to the convoy. For a convoy of ten commercial vessels, the flotilla consisted of four mechanized landing craft modified as minesweepers, a pair of river patrol hoats a command and control boat, one mechanized landing craft converted into a heavy weapons platform, and three amphibious assault natrol hoats. In artifition, a nair of river patrol boats provided protection for each ship.



A third group of support vessels consisted of a command and control hoat for the deputy convoy operations commander, a pair of amphibious assault patrol boats, and five armored troop carriers. The latter carried Republic of Vietnam and Cambodian around troops who could be brought ashore if required Lastly, ground troops were dispersed along the banks of the river to provide additional surveillance and protection. To escort ten commercial vessels a total of 46 Republic of Vietnam naval vessels were required. This was an expensive and logistically complex operation

The original plan called for only USAF and US Army assets to provide additional convoy coverage. Army helicopters and USAF Cessna O-2 Super Skymasters. North American OV-10A Broncos, and AC-119G Shadows were employed. On 17 January 1971, the US Navy was also tasked for supporting the operation with helicopters and OV-10A Black Ponies. To assist in coordination with the air support units.

On 18 August 1971, considerable concern Seventh Air Force when it was determined that the AC-119Ge were scheduled to be transferred to the Republic of Vietnam Air Force on 10 September. To ease the transition, five USAF gunship aircrews were provided for the missions until the Vietnamese became proficient with the aircraft

A total of 33 convoys traveled up the Mekong River between 17 January and 24 September 1971, each with its armed flotilla support and constant air coverage. Of the 640 vessels escorted, only one harge was sunk, two tugs were heavily damaged and one was beached. eight ships were damaged, and several vessels sustained light damage. There were 3 fatalities and 11 injured on the surface vessels or from the air support teams. To ensure the success of the convoy support, 2,240 sorties were flown. However, only 23 air strikes were required. As stated earlier, just the presence of the gunships reduced the enemy's desire to engage targets. under their surveillance.

End of An Fra On 1 September 1971, the 819th Combat

Squadron was activated in the Vietnamese Air Force and became known as the Fire Dragons. Based at Tan Son Nhut, the 819th obtained the C-119Gs from the 17th SOS. Crew experience. was a major factor in the speedy transition of AC-119K, 53-7839, operated by the 415th SOTS,

1st SOW, at Hurlburt Field, Florida. The aircraft nose is red. A 1st SOW insignia appears on the nose. The TAC insignia and AH code are applied to the fins. A red turbine warning band appears on the jet pod. The aircraft is equipped with three-bladed Hamilton Standard propellers. This picture dates from 6 February 1972. T H Brewer

The forward fuselage details of an AC-119K operated by B Flight, 18th SOS, 14th SOW, at Da Nang AB, South Vietnam, in August 1970. the Vietnamese. Many of the pilots had flown the C-47 since 1958, accruing in excess of 6.000 hours with some logging over 12.000 hours. The average American AC-119 pilot had ing into the C-119. Notwithstanding the Vietnamese pilot experience level, their night and weather capabilities were lacking. Gradually the Vietnamese pilots gained experience in the C-119 and their familiarity with the terrain allowed them to spot targets at night quicker

than their American counterparts Experience showed that following the initial use of airnower querrillas hesitated to attack a convoy escorted by even a light spotter FAC air-Model/Series

> AC-119G 52-5927

Sarial No

52-5892

52-5892

53-8069

52,5907

52,9962

Nores

Charlie Chasers

City of Columbus

Modestura's Revenge AC-119K 53-7864

The Peanut Special

Fly United

craft. On occasion, just the noise and present of a cunship had such an adverse psychological effect on the enemy that they might out not to ambush a convoy. The C-119 gunships proved their worth in the war in Southeast Asia. They few cover for both troops and convoys, and were responsible for destroying numerous enemy trucks and samnans bringing reinforcements into the war. This aircraft had set uned to fly in its second war in a mission for which it was never intended and yet still performed the job well. Known named AC-119 gunships, Names

and nose art were only hriefly used heraiss the markings were found to be easily ituminated by enemy searchlights at night Unit Remarks Transferred to 17th SOS. Transferred to VNAF Transferred to 17th SOS Transferred to VNAF 1st AC-119 in inventory. Transferred to 18th SOS. Transferred to VNAF

186 505 Transferred to VNAF 18th SOS Lost over Thailand during mission on 2 Aug 1972 185 505 185 505 Transferred to VNAF





alfetta (2007)

United States Marine Corps and Navy Boxcars

The United States Marine Corps (USMIC) employed a number of Flying Boxcars in the transport role in both their active duty and series units whereas the US Navy operated tess arjahans in a limited role with one known and. A total of 97 AQP-1 and R4Q-2 were prouand through USAF contracts for use by the long and Marines. Although the acroraft had role shortcomings, they provided valuable series for over 20 years.

USMC OPERATIONS

is with the USAF, the United States Marine Cops lacked an adequate heavy-lift transport. Stemp the potential in the USAF C-1198, the Warries opted for this aircraft in their inventory, respin with the US Navy Bureau of Aeronatics (Buker) numbering system, the Plying Sparse would carry the designation of PAG-1 the R for transport, the 4 for the fourth model pound from the manufacture, O which stood for Paichild, and the 1-indicating the first sees of the aircraft time.

Deliveries of the 39 R4C-1s began in 1950, these aircraft were essentially C-119Cs, sugaded from the earlier C-119B, powered by F3B R-4390-20W water-injected engines and earlierse incorporating certain structural superviewes. In 1953, the Marines stock delivsy of their first R4O-2s, these being essentially C-119B powered by Wright R-3350-85 turbourepound engines. The Marines acquired 58 162-2s, all of which were delivered with dual

A number of R4Q-2s were subsequently sociated to incorporate the ANIAPS-42 search safe. These aircraft were readily identifiable by the extended noses. The radder was employed tot as a navigational aid and as an ant-to-list examing device. It provided a visual indicated the position of cities, landmarks, shore as, slands, ships, other aircraft, and cloud.

he Mariess operated this RéO-1, Butho 124324, too MAS Patuzeet River, MD for flight testing. In was the first aircraft in this series assigned the Mariess. Note the NATC on the vertical fall advobaced on the right wing. The last three spis of the BuNo appear on the top of the right may and en the ness. VPDOS 1 vis R L Lawson.

Isle 124344 was another USMC test aircraft. Its only distinctive markings are the last three glast the BuNo on the nose and the "UNITED BATES MARINES" boldly painted on the lower price of the fuselage. This picture dates from Highest 1953. Via P Mersky formations. Target position was visually presented in both range and azimuth on the ploth range azimuth indicator (an IP-36/APS-42 or IP-217/APS-42), one was located on the left side of the navigator's rack, and the other above the main instrument panel between the clicks.

Initial Inventory

An initial batch of eight R4Q-1s was acquired by the Marines and evaluated at the Naval Air Test Center located at NAS Pataxent River, MD. On 1 September 1950, the aircraft were assigned to their first operational unit, VMR-252, stationed at the Air Fleet Marine Headquarters for the Attantic Fleet at MGAS Cherry Point, NC, under the command of Col Henry C Lane. The

unit's initial allocation of eight RAC-15 given to 15 by June 1950. Beginning in April 1953, VAMI-252 gained 15 RAC-26, and all of their RAC-15 were set to other units. VMP-26 as assigned to MAC-11, also obtained at MAC-26 assigned to MAC-11, also obtained at MAC-26 he 2, the Carbonan, Europe, and Africa in support of Marine requirements. A small conor two-piece detachment from VMR-26 assigned established at IASS Port Lysadiny, Morteschment provided support to Marine ground force during the July 1965 crisis in Lebanne during the July 1965 crisis in Lebanne during the July 1965 crisis in Lebanne

Three Marine Air Groups were equipped with











Cherry Point, NC; MAG-25 at MCAS El Toro, CA: and MAG 45 at NAS Miami, FL.

Under the command of Col Ben Z Redfield, MAG-35 had two squadrons equipped with the Flying Boxcar; VMR-153, under Maj William E Baird, and VMR-252, under Maj W H Costello.

VMR-252 gained its R4Qs in April 1950, with VMR-153 following in April 1953. At El Toro, MAG-25 was commanded by Col

PK Smith. Two of his squadrons were equipped with Douglas RSD Skymsaters, while VRM-233 had RAGs under the command of L Col Card J Fleps. By February 1952, the unit had its full complement of 16 R4Gs. WRR-230 was the second unit to receive the R4Qs, and was the first west coast unit to gain the aircraft, with BuNb 126582 being accepted on 22 December 1951. The squadron's aircraft flew missions.

throughout the ZI and across the Pacific. Starting in mid-1953, VMR-253 operated out of MCAF Itami and MCAF Iwakuni, Japan, in support of Marine operations in Korea.

In early 1955, the unit's headquarters was moved to MCAF heateuri and VMR-253 was reassigned to MAV-1. VMR-253 replaced its R4Q-1s with R4Q-2s in May 1959. Equipped with 10 of the new aircraft, the squadron made routine logistics flights to bases in Japan, Okinawa, the Philippines, and Southeast Asia. In November 1961, VMR-253 disposed of its last R4Q and gained the new Lockheed GV+1 Hero.

Col W A Willis headed MAG-45 that had one R4Q-equipped squadron, VMR-353, under Lt Col Lee C Merrell. VMR-353 received its first aircraft in May 1953.

R4Q-2, BuNo 131666, as she appeared on 10 May 1954. The last three digits of the BuNo appear on the nose and under the left wing inboard of the word 'MARINES'. The AC tail code indicates that the aircraft ws assigned to VMR-153, NAS Itami, Japan, An F-51 Mustang appears in the background. Note that the aircraft is equipped with the large single nosewheel. This was the fifth R4Q-2 built. The aircraft was accepted by the Navy on 27 February 1953, assigned to VMR-153 on 30 March 1953, transferred to VMR-353 on 19 November 1957, transferred to VMR-253 on 19 May 1959, went to storage on 1 December 1001 and was dropped from the Inventory on 24 February 1954, after accruing 5405 flying hours. Olson via P M Bowers

R4Q-1, BuNo 124330, lumbered along at NAS Cherry Point on 27 April 1950. The LH on the tall indicated VMR-252. Marine Corps 508720

R4Q-1, BuNo 128735, was assigned to VMR-253 as indicated by the AD unit markings on the boom and tail. "MARINES" is applied beneath the left wing. H S Gann

Second Round Two additional units VMR.153 and VMR.959

began receiving R4Qs in 1952 and 1953. VMR-153 based at MCAS Cherry Point. began receiving its R4Q-1s in June 1952. The unit gained six of these aircraft that they retained until April 1953 when factory-new R4O.2s came into the squadron's inventor. The squadron had its full complement of 15 R4Q-2s by the end of April, VMR-153 formed a small detachment, with two aircraft, at NAS Part I valitey. Morocco where they operated alone side VMR-252, VMR-153s R4Os flew logistical support missions to England, western Europe throughout the Mediterranean, and across North Africa. This detachment operated for less than two months and returned to MCAS Chem-Point VMR-153 operated as many as 2 R4Q-2s by January 1959 however this number was drastically reduced to 12 by 1 July 1968. when the unit was disestablished and hi remaining aircraft were distributed amongs remaining R4Q units.

VMH 353, based at MCAS Maren Gop Loss.
The first sincer, Bullet of 1969, amind of May 1963 and the equation had its fill on the equation had its fill of the more present of 15 sinceral by the end of the non-liverage of the more VMH 353 became the designated trans cauciation for all Marrier BMGs. The space of the spa

The last unit to receive the R4Qs was

The last Marine squadron to operate the R4Qs was VMR-352, stationed at MCAS E1for. The unit has the distinctions of operating the fewest aircraft, five, and using the aircraft for least amount of time, two years. VMR-352 gate its first R4Q in mid-May 1959 to appliement account of the complement of t

RSD (C-54) Skymasters. The squadron employed the aircraft for routine training exercises, logistical support for west coast Marine bases, and tenden Marine reservoists for training.

B40.1e

The first two R4C-1s, BuNo 124324 and 124326, see delivered to NATC RAD Patuxers River, see delivered to NATC RAD Patuxers River, 1950. Subsequently both aircraft Navy and Marine coverhaul and repair facilities but the twin the inventories of several Nay and Marine coverhaul and repair facilities between the form service with relatively to sine. The aircraft had accrued 830 and 565 seatons between the service had to see the control of the service of th

tee from The aircraft had accrued 850 and 650 flag (but plus have people), at reterement, and the second set with the advent of the RHO.2s. Many of the RHO.2s. Many of the RHO.3s the second set with the advent of the RHO.2s. Many of the RHO.3s there extend the RHO.3s the second set of the RHO.3s the second results and Mantenance Squadrons, Marine sheep, and MCSS station. Operations and MCSS station Coperations and the RHO.3s station Coperations and the RHO.3s station Coperations and the RHO.3s station Coperation and the RHO.3s station Coperation Second to MCS Learning and The RHO.3s station Coperation Second to MCS Learning and RHO.1s was ferred to NAS Learning and RHO.1s was ferred to NAS Learning and Experiment Second Second

Operational Anecdotes

Between 1 July and 31 December 1982, WH-522 flew 2,805,264 passenger miles and 55,997 freight ton miles. These missions were few without an accident. In addition, the unit tad an on-going pilot training program.

In January 1981 Marines on maneuvers in January 1981 Marines on maneuvers in

It answay 1951 Marines on manurures in the montains south of Laker Bahos. CA, locates enrobecurd. On the 1787, the sole R4O, 1964 PMR-253 made an emerory and top of medical as pupiles to the property of the sole of the control of the control of personal control of the control of the control of personal control of the control o

NO-2, BuNo 131690, reveals its original nose. The aircraft was assigned to VMR-353, NAS Nani, FL, displaying its MZ tail code. In the latiground are FJ4 Furies, HS Gann

C119F (R40-2), BuNo 131685 was assigned to Will 252, as indicated by its QB tail code and all deetlife beneath the UNITED STATES BIRMES'. A rescue arrow appears near the address. The aircraft was painted with a white, black cheat line, and extensive dayglo red set on the Servard fuselage and empenage, laircraft was photographed at MCAS series. VA on 15 May 1981. Marine Corns.

IGO, BuNo 131679, was operated by MARTAD bin NAS Seattle, displaying its 7T tail code. In Jiy 1963, the aircraft shared the ramp at limited AFB, AK with a MATS C-124. Within seven seconds the parapacks were dropped from the R4O at an altitude between 300 and 400th and all landed within a 200th area. Several days later, the R4Os flew 37 sorties carrying 588 of the snowbound Marines over a 430 mile trip back to carry.

Much of the flying within the United States was in support of training operations, delivering troops between east and west coast bases.

VMR-382, based at MCAS, El Tiron from December 1948, transitioned into R4Cs during July 1960. Between that date and January 1963, their primary mission was to siriff, personnel and supplies in support of combat troops in the western Pacific. They made daily flights between El Toro and WESTPAC bases. On 23 June 1951, a pair of their R4Cs departed Dallas, TX with four Bell HTJ L5 Surv. Peliconters for

Korea, marking the first time transports flew helia. zone. During the fall of 1968, WMR-932 suptransports of the first time transports flew helia. zone. During the fall of 1968, WMR-932 suptransports of the first staging for action
in the Talwan straits during the artillery duel for
control of Matsu and Queeny Islands. The
ss quadron transitioned into Lockheed GV-1 Hercubits springer in March 1941.

During the ill-fated Bay of Pigs Invasion, both VMR 252 and VMR-353 had their aircraft loaded and airborne in a single day in May 1981 to deuport the operation. While enroute to their destination, CINCLANT ordered the aircraft to return to home hase.

Political Redesignation

In 1962, Secretary of Defense Robert Strange McNamara became confused between the air.











Later in its carner Bullo 131679 was assigned by

C-119s (HGC-2), BUND 13170s, Was photographed at Waterloo, IA, on 10 May 1995. The aft portion of the booms and stabilizers appears to have been painted with the daygle red conspiscuity markings. White-outlised ref rescue arrows were applied below the entiry door and near the astrodomes. The bufbous nose housed the ANI/APS-42 search radar. USMC

R4Q-2, BuNo 131581, was operated by VMR-253, seen here in natural metal finish with its 00 tail code. Note the A-4 Skyhawks in the background by 5 Garo.



inventory was BuNo 131661 with 253 hours of flying time. The aircraft was accepted from the factory on 27 February 1963, and assigned to VMR-153 at MCAS Cherry Point on 12 March 1963. After an accident, it was stricken from the records on 18 July 1963. BuNo 126579 was accepted at the factory on

December 1981, and assigned to the Osehaul & Repair unit at MCAS Cenery Pori or to haul & Repair unit at MCAS Cenery Pori or to December. VIRH-252 gained the aircraft on 18 March 1993. The airplane was reassigned to MG-10 at MCAS El Toro on 19 June 1983, and then to VMR-253 at MACP Invalvari, Japannov2 December 1983. An accident restated in the aircraft being stricken from the inventory on 4 June 1984, after having account of nV90 hours.

R4Q-2 BuNo 121703 was accepted from the factory on 28 April 1953, and was assigned to WMR-353, MCAS Miami on 18 May. The arcraft accrued 1,171 hours and suffered at accident, resulting in its being scrapped on 6 February 1956.

BuNo 131716 was accepted on 21 May 1951 and assigned to HAMRON-32 (Headquarks) Marine Squadron 32), MCAS Miami on 8 June The aircraft was transferred to H&MS-32 (Head quarters & Maintenance Squadron 32), MCM Cherry Point on 10 February 1954, then b VMR-153 at the same base on 6 May. Theatcraft returned to MCAS Miami where it was assigned to VMR-353 on 11 September 199 After accruing 1,607 hours, the aircraft experenced propeller control problems during a local training flight. A heads-up crew feathers the propellers and shut down the engines of the final approach, and brought the aircrafts into a canal resulting in severe structural dan-October 1956.

BuNo 128744 was accepted from the later on 31 January 1952, and assigned to te





craft designations used by the USAF and the Naw, To solve his confusion he mandated that the Navy change its designations to conform with that of the USAF. This change both place in October 1982. Consequently, the American taxosperhato is hard the reporting of all of the Bulker manuals used in support of their aircraft. Hast is, flight the RAU lost is before the Section of the PAP of the International became a C-119. The RAU is became C-119Cs and the RAU case became C-119Cs.

Marine Reserve Units Beginning in 1961, three Marine reserve units gained the newly redesignated C-119Fs to sup-

port their operations throughout the country. Approximately 20 of the aircraft were distributed amongst these Marine Reserve units units.

Unit	Base	First Aircraft	
VMR-216	MARTD, NAS Seattle, WA	Apr 1962	
VMR-222	MARTD, NAS Grosse Isle, MI	Dec 1961	
VMR-234	MARTD, NAS Twin Cities, MN	Dec 1961	

These units operated the C-119F for about ten years for weekend drills and two weeks of active duty training during the summer.

With the closure of NAS Twin Cities in 1970, Inc. VMR-234 moved to NAS Glerniew. II. Bureau of Aeronautics Research & Development Branch at Baltimore, MD, on 15 February 1952 It was then transferred to the Overhaul & 1952. The aircraft was reassigned to VMR-253. M MCAS El Toro on 20 March 1952, then moved with the unit to MCAF Itami on 25 November 1953. When the squadron relocated to MCAF Iwakuni on 25 May 1955, the aircraft continued its service with the unit. On 11 May 1956 the airrest was involved in an accident ater fiving 1,890 hours. The aircraft was dooped from the inventory on 22 May 1956. BuNo 128726 was accepted from the factory m 28 December 1951 and assigned to WR253 MCAS FI Toro, on 14 February 1952 The aircraft moved with the unit to MCAF Itami on 30 November 1953. It was reassigned to the Overhaul & Repair facility at NAS San Diego the MCAS Cherry Point on 7 December 1953 HIMS-25 at MCAS FI Toro received the aircraft on 31 January 1955. The aircraft was again ssigned to VMR-253, now at MACF Iwakuni. m 9 March 1955. After accruing 1 920 hours the aircraft was involved in an accident and stricken from the records on 16 May 1956 BuNo 128741 was accepted from the factory in 29 January 1952, and assigned to AirFM-LANT (Air Fleet Marine Force Atlantic) MCAS Cherry Point, on 8 April 1952. The aircraft was ressoned to VMR-252 at the same base on 5 are 1962 MTG-10 at MCAS El Toro gained he aircraft on 8 June 1953. The aircraft was ressigned to VMR-253 at MCAF Itami on 28 Onster 1953, and moved with the unit to MCAF Iwakuni on 1 January 1955. After accruto 3 117 hours, the aircraft was inunlyed in an accident at MCAF (wakuni on 7 March 1958) and dropped from the inventory on 15 May. Bullo 128738 was accepted at the factory on 3 January 1952, and assigned to VMR-252. WAS Cherry Point, on 3 April 1952, MTG-10. WAS El Toro, gained the aircraft on 8 June 183. The aircraft was reassigned to VMR-253 # WCAF Itami on 24 November 1953, then most with the unit to MCAF Iwakuni on 23 Rosary 1956. The Overhaul & Repair facility #NAS Corpus Christi gained the aircraft on 3 Much 1955. The aircraft was returned to WR053 at MCAF Iwak ini on 24 Sentember

Itami on 3 May 1958, the landing gear failed to retract. The crew elected to make an emergency landing at lwakuri with the gear partially retracted. Apparently the aircraft was repaired sufficiently to continue operation until 17 March 1959, when it was sent to NAF Litchfield Park. Az, where it was dropped from the inventory on the continuation of the continuation of the continuation of the the continuation of the continuation of the continuation of the the continuation of the continuation of the continuation of the the continuati

13 May 1960, after having flown 3,462 hours BuNo 131708 was accepted at the factory on 30 April 1953, and assigned to VMR-353 at MACS Mismi on 22 May. Then the aircraft was

assigned to NARSAWNSG.37 (Marrie Air Repair Squadron/Marrier Wing Support (Group-37) at MCAS Marrier (9r). Group for a fair and a fair arriad no 9 February 1995. The aircraft was placed in storage at NAP Literated Park on 6 March 1995. It again assigned to WMR-353. The aircraft was sent to MCAS Cherry Ford Herrier Was sequentially assigned to WMR-353. The aircraft WMR-352 on 19 August 1998, and 15 May 1999.







185 During take-off for a flight from Iwakuni to 186 13177, with its ST tail code, was peopled at NAS Whidbey Island in igenete 1971. The aircraft is painted overall with Sa Cray with a white cap, Note the red and site arep tips. PM Bowers

hitchildes is parked on the snowy ramp at Mit Stose isle. A tow bar is hooked up to the mages. Eric Lindahi va H S Gann

the scording 4951 hours, C-119F BuNo 131688 it 98/32 on 3 April 1961 for storage at NAF thrief Park, AZ. Subsequently, YMR-234 seeled the aircraft out of NAS Glernview, IL, the it was photographed on 16 August 1973. Is guston code had changed to ON. J D Morris







respectively, On 19 May 1959, the aircraft was reassigned to VART-SS at MCAF HANESS at TABLE AND AIR SS at MCAF HANESS AT THE AIR STATE AND AIR STATE AND AIR STATE AND AIR STATE AIR STAT

aircraft experienced a landing gear malfunction and returned to NAS Glierview for a gear up landing. The aircraft was subsequently sold and ended up as N7051U with Hawkins & Powers at Greybull, Wyoming.

US NAVY OPERATIONS

The only known US Navy unit to operate the R4Qs was VR-24 based at Port Lyautey, Ken-

Bullo 131670 was photographed at NAS Whidbey Island with tall code MY for YMR-214. Whidbey Island with TMR-224 at NAS Glerniew with tall code WH. She was reliefed to MASDC on 1 June 1972, then on 14 July 1881 she was relegated to Dross Metals for scrapping. D & McCullouph

BuNo 131670 carried the 7Y tail code when operating with the MARTAD at NAS Grosse Isle ML H S Gann

When VMR-234 operated out of NAS

Minnespolis. MN, its tall code was SE. C-119F, Bulko 131708, was photographed at Ferbes AFR, Bulko 131708, was photographed at Ferbes AFR supportenced a landing gear militoraction on slight from NAS Gleaview, I. to NAS Twin Object. The alercraft made a gear-up landing at NAS Gleaview. It is NAS Twin Object.

tra, Morocco, with a deschrement at Nages. Hally, This unit operated as many as four Fig. ing Boccars between 1954 and 1952. The mission was to provide and other Naval unit and shore establishments throughout the European and Mediterranean areas. Othe aircraft operated by VR2-24 during this limit farms included Douglas RIGO Silymanian Traders for Carrier On-Board Dollview; (OD poperations, VR2-44 also served as foot for Reserve VRI squadrions deployed to the arser for training.)

On 27 October 1990, while under the command of Capt W A Hood IV, WR-24 was commended by the Commander-in-Chief, US Newl Forces, Europe, for meritorious achievement in the performance of their duties in air evacuation between 1 and 10 March 1960, after the earth-quake at Agadir, Morocco.

A special flight by an R4Q was flown on 8.

February 1961, from Port Lyautey to Roti. Spain, and on to Cape Verde Islands, a Portuguese territory in the Atlantic. This missor was in support of fleet units in the area. An Operational Readiness Inspection was conducted between 26 and 27 March 1981.

and an overall grade of excellent was attained During their service with VR-24, the R40s flew as little as 19 hours and as much as 365 hours per month. Their numbers of flotts were as low as 10 per month and as high at 121. Two of the four R4Qs were dropped from the inventory of VR-24 in early 1962 BuNo 131665 departed on 19 January 1962 followed by BuNo 131668 on 12 February These aircraft were flown to Litchfield Pas. AZ, for retirement. By the end of June 1962. the remaining two R4Qs were dropped from the squadron inventory, thus ending the career of the Flying Boxcar in the US Nay The Lockheed GV-1 Hercules became the replacement aircraft.

In addition to VR-24, the Navy operated atta R4Qs for flight testing at NATC Patuxent Rise and as maintenance trainers or base suppor aircraft at several bases.



Bulks 131708 displayed its dayglo red finish as it lided into orange. Note how 'MARINES' is applied to the bottom of the left wing. N \to Filor

his top view of BuNo 131708 reveals the dayglo conspiculty markings pattern, walkway demarations, and the 708 7T on top of the right whe. NE Fier

Bulls 131692 was flown by VMR-353 from NAS liam. The DZ ball code indicates that the stotograph was taken after 1967 when the unit designation changed from MZ. In the lackground, an Air Force C-122 Provider shares the rame with the Navy SZS: H S Gano.

EPILOGUE

Initians Corps Flying Boxcans soldiered on to C198's until the mid-1960x. When the mid-1960x who the history of the sin 40, years transitioned into the Locahead of 14 Heades. In the word of he redesignated is NC-105° after the McNamana change, at large of Marine Corps air stations upport aircraft. In soon, these aircraft found their way midtion, these aircraft found their way midtions, these aircraft found their way midtions of the size of the size of the size of the large values. The size of the size of the large values of the size of the size of the aircraft from VMR-234, server into his or large values. The size of large values of the size of the aircraft from VMR-234, server into his aircraft way for the size of the aircraft from VMR-245 are size of the aircraft

while a cantankerous beast, the aircraft swed the Marines quite well and filled an swetal mission requirement until a better airnt could be developed. While remembered to popiler failures, engine shutdowns, and skip gear malfunctions, the aircraft afforded to Marines an excellent aircrop polatform and filled a rest and recreation escape for many





Royal Canadian Air Force

A need for a larger transport was seen by tools with Royal Caracidan Army. The Farchild C-11st Royal Caracidan Army. The Farchild C-11st Royal Caracidan Army. The Farchild C-11st C-8st Royal Caracidan Army. The Farchild C-11st C-8st Royal Caracidan Royal Caracidan Royal Caracidan Royal R

Flying Boxcars were procured directly by the RCAF for use as replacements for the venerabio Douglas C-47 Dakota. These aircraft were operated by three squadrons between 1952 and 1967 in routine transport operations, air resupply missions, paratroop training drops, and a variety of special duries.

RCAF Squadrons

Chinthe, or 435 Squadron, based at Namao near Edmorton, Alberta, was the first unit to receive the aircraft in September 1982. They performed routine transport duties in western Canada and airlift support for Royal Canadian Army paratroops training near Rivers, Manitobs. Between November 1966 and January 1957, they airfled more than 1,600 troops (including Caradiae Army personnel) and nearly 225,000 to 0 height 115,000 to 0 baggage, and 2,000 to of malt trut laby to Egypt in more than 900 flying hours white supporting the United Nations (UN) operations there. In 1960, 435 Squadron re-equipped with

the Lockheed C-130 Herquies Electron or 436 Soundron based at Donal Montreal hacame the second unit to motive the Flying Boxcars in April 1953. The squadron's motto is Onus Portamus - We Carry the Load. On 9 March 1956, a major conflagration equated after an explosion in 'A' Bay of the Ar Transport Command hangar, A strong wind fanned the flames, resulting in the loss of the hangar, a pair of adjacent office buildings, and three aircraft, including a C-119. On 1 July 1956, the unit relocated to Downsview Ortals where they continued operations with the C-119s. The Squadron also supported the UN airlift between November 1956 and January 1957. In August 1964, the squadron relocated to Unlands, Ontario. The following year 436 Squadron transitioned into the Lockheed C-130

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The first two RCAF C-119F-FAs, 22101 and 22102, in formation over Edmonton. Note the absence of the ventral fins. Minimal marking appeared on these aircraft when this picture was taken. The pair of radar altimater artens

appeared on those aircraft when this picture was taken. The pair of radar attimater astenses were staken. The pair of radar attimater astenses wishible benoath the wings. Aircraft 221th preserved at the Pratt Museum, Fort Campbel, KY, where it is painted as a USMC 840-2 with BuAir No 131679. PCAF PL 54582

The second C-19F procured by the RQAF was serial number 22102. The last three digits we applied to the boom aft of the national insight when the alrorath was photographed in 1951. Both the tall numbers and boom numbers we steend! cut. This alrorath now resides at the National Warplane Museum, Geneseo, NY. Va P M Bowers scanned.

alfetta (2007)

Arount 22 10 was employing the parabalene delivery system that permitted the claim-hell delivery poster that permitted the claim-hell deser to be installed to retain a modicioum of cash head. Supplies were being receptor to Rigid Crassfan Army personnel on a field searche and 2000cc City on a February 1955. Rid paint is applied to the horizontal stabilizer and singlips only. The last three ediplies of the case of singlips only. The last three ediplies of the case of the country of

Liste in its career, aircraft 22110 had the AIAPS-42 search radar retrofitted, as denoted by its bulbous nose. The daypilo orange conspicuity markings had been replaced with the red Arctic trim on the wingilips, dorsal and writer lifes, and vertical files and horizontal sublitzer. The prop hub appears to have been paired blue. ICAS FOR 73-163

Air Resupply Operations

Fileg in the arctic regions is anything but a pictagenise compasses are all but worthless was flying near the North Pole. Radio navigaso can be limited by storms and other elemagnetic disturbances. Weather can take its all through frigh winds, ionig, and reduced as but North Fight winds, ionig, and reduced as but North Fight winds, ionig, and reduced as yet the ROAF C-119 crews. Radio attimaters, grecompasses, and the skills of highly trained segators helped make flying in the northern studies successful.

The C-119s performed resupply operations b bases, weather stations, and the Mid-Canada Line radar sites. The weather stations we co-operated by Canadian and US persome in summer, ice breaker-escorted sea scoly provided the bulk of logistics requirenerts. However, during spring and fall, air se mily harama a nanassity. In 1956 a record 1200,000 lb of food, fuel oil drums, belium plinders for weather balloons, heavy equipnert plywood and lumber, and so on were airhed in by the C-119s. In spring it was daylight Who reper day, while in fall it was always dark At Resolute Ray there was a 5 800ft long runnow it was not uncommon to have to let down t an altitude of 40ft before the runway could be ses. Once down, the flight crew did their own. ritating. Records are there to be made and trien. In early 1956, an aircrew led by F/O A Rolling had unloaded their aircraft at Mould By in last seven minutes. Shortly thereafter shed their unloading is six minutes. Then F/O #CBadger's crew beat that time by unloading hit ship in five minutes. The best time was marby F/O N C Woods' crew when they off-JN 45 seconds. Of all the types of equipment edsupplies carried, oil drums were by far the west to unload.

Amays, located on sea ice or land, were wied by red flags and lines of empty oil ans Once on the ground, the crews worked assoid turnaround. The longer the aircraft sat throat the more difficult it was to set started.





On occasion a sudden snow storm would prevent a departure, the alroraft had to be dug out and the runway cleared before crew could depart. In 1965, one alroraft landed at a satellite landing stip during a whiteout. The alroraft has high snow drift that was unseen by both the flight crew and those on the ground. The alroraft was repaired and was able to participate in the resupply operations during the following wear.

During the resupply operations, the ground crew worked 12-bour shifts round the clock. Servicing the aircraft in articl open is no small thore, It takes as much as twice as long to perform any task. Refusiling of a C-119 necessitated standing on too fit the wing and dragging a hose up from a refusiling truck. The crews cessed refusiling only when in danger of being blown off the wings. Oil in buckets had to be heated in a neathy servicing shed and rushed

out to the aircraft. At best, only half of a five-gallon bucket actually got into an engine before the oil congesiled to the sides of the bucket. Often the oil was blown out across the snow. Worse yet was when the oil had blown onto the aircraft where it had to be chipped off prior to flight. At Christmas time, the C-119s made special

aidrops to the remote actic sites, in addition to continely dropping he mail during the long view. Int. Dubbed Operation Sorth Claus. crew would fly on the nights of the last full mono bloke Origination in order to renurse their location in the small actic settlements. Air Professor Command headquarters added Christmass there to the supplies or each detachment. Both No.453 and No.459 Squadrons allocated on acreat to Operation Stark Claus. Areas of the 435 Squadron flew out of Frobisher Bay while AS Squadron flew out of Frobisher Bay while AS Squadron flew out of Frobisher Bay while AS Squadron flew out of Frobisher Bay while





RCAF C-119F, 22115, had ventral fins added to the booms. The last three digits of the construction number, 10859, appears on the nose. Narrow black anti-corrosion panels are applied aft of the upper exhaust stacks. Va P M Bowns

To the original markings, C-119F, s/n 22130, added the red and white lightning bolt, 'ROYAL CANADIAN AIR FORCE', and 'ITROPO CARRIER COMMAND' on the fuselage. Note the corredet skin panels aft of the top exhaust stacks. This aircraft went on to serve as a fire fighter with Hawkins & Powers, Greybull, WY.

Vas Eric Durniges.

C-119F, s/n 22131, added the Insignia Red Arctic trim to its full-up markings. The last three digits of the serial number were added to the nose, and deleted from the booms. P M Bowers A395

In support of the Mid-Canada Line rader sites, 436 Squadron delivered 8,085,488 band airdropped an additional 550,573 b of cags. Braving the elements provided essential support to the remote stations and gave vital training in arctic operations to the air and ground crews.

On 16 March 1956, a 436 Squadron C-119 may have set a cold-start record when they fired up in -62°F weather.

UN Operations

Hostillies broke out between Egypt and treat in early October 1986. Quickly the leases to control of the Sinal Peninsula. The British net French intervened and began attacking militar targets with Egypt. Within tend way a casefire was called and a request was made for all peackweeping force. The UN reacted quickly and formed a United Nationa Emergency Foxa (UNEF) to police the troubled area. Canada tax



Aircraft 22123 carries the UN markings.
CANADIAN AIR FORCE' is replaced by 'UNITED
MATIONS' (in red), yet the 'TROOP CARRIER
COMMAND' lettering is retained. The red paint is
applied to the wingtips, hostorulat stabilizer,
desaf lies, and the inspar surfaces of the
writch lies and desaft lin. Pancoalis

Ship 22127 was assigned to No 436 Elephant squaden, as identified by its unit insignia beneath the cockpit window. The last two digits of the serial number appears on either side of the nose landing light. Via T Panopalis

Rigid Casadian Army troops prepares to board and 20 ICAS 7-198 participating in barries diobetroffer, on 20 October 1958. Note that these of the four already all cases in product and the service of the control of the service of the control of the service of the control of the

susteed to contribute a battalian of throops.

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The RCAF roundels were replaced with blue at white UN insignia. The name 'ROYAL ONNOMA NE FORCE' was removed from the Issaige sides and replaced by 'UNITED MIDONS: However, the RCAF lightning bolt with either of the aircraft remained.

in the sides of the aircraft remained.

De? November 1966, the fest RECAP Flying boars opparted from Downsower for Joudenin Aughors, Bully. The sixqualified Aughor Inter Register, Bully. The sixmeased on the cabin floor, Incrinally, the fest aged sould be the fast to arrive in Intersize of sould be the fast to arrive in Interturbed, the right engine Sald on Girl, O'W. Sizengham's aircraft, serial number 221
Baratant size carrying a spare engine para size up — in tern that was not jerisonation. The register of the properties of the C-118 was specified from the C-118 was series of the C-118

bundland, the right engine failed on F/O W W Enoringham's aircraft, serial number 22133. he aircraft was carrying a spare engine as its camp - an item that was not jettisonable. The argle-engine performance of the C-119 was at the best. A fuel jettison capability was not letured on the Flying Boxcar. Crew ingenuity as not lacking, however, Col R C Hutton, the left engineer, improvised a fuel lettison sys-Im. He took metal tubes from the parachute ads and connected them to the auxiliary fuel tris. Next he ran the fuel from the cross-flow control valve through his improvised piping. He vasable to dump 7,000 lb of fuel out the paratoo doors. Through Cpl Hutton's efforts, F/O Protection was able to maintain the singleregred aircraft at a 4,000ft altitude for two and













Paratroops from the Princess Patricia Canadian Light Infrantry board C-119F, 22114, at RCAF Station Namao, near Calgary, Alberta, during Operation Buildog IV. A unit code, OU, appears on the boom. PICAF Pt.76871

C-119F, 22133, is being loaded at North Luffenham, England, as part of the 1 Fighter Wing move to Marville, France on 13 January 1955. RCAF PL-63644 Note how the RCAF national insignia on the

boom and the file flash have been replaced by the NATO insignia. These aircraft from 435 Squadron were photographed at Abu Sueir, Egypt, on 10 December 1956. RCAF PL-108294

a half hours. The deteriorating weather loos the cree to declare an emergency and a Lancaster was dispatched as an escort. We had, 3000 coiling and three and a half mid per Fig. Empiricipalms let down all Totally. Find Exp. Find Empiricipalms let down all Totally. Find exp. they received a commendation from the fold for the AF Staff. A second aircraft, sender 22 130, departed Canada as a replacement to the own process of the commentation of the commentation of the commentation cleaned to the commentation cleaned cle

were established at Gapociónno, taly, and Abu Suer. Egypt, with 114 and 115 Communications. Flights based at those two bases caccions. Flights based at those two bases, respectively, to direct and control air operations. Group Capatan H A Morrison was thefat UNEF RCAF component commander. He was succeeded by Group Commander W P Plass ance, in January 1957.

The RCAF C-119s assigned to the UNEF

mainly flew a 1,300-mile shuttle between Capyolichino and Abu Suer three times week carrying troops, equipment, and supplies. On one occasion, a crew from 35 squadron flew (Egyptian prisoners of war or 1,900 mile trip from Dijbouti, French Somaland, via Wadi Haffa and Khardom, to Cairo. The POWs were the one-time crew of a sip sunk in the Red Sea during hostilities in the Suez crisis.

erreces flying operations had to be advised to to lest the processeeping sizerable boom wholved in the flying. Department brond processes and the flying the processes of the entire an on them arrival at Social Big form elling. Landfall had to be made at Rosan bout 30 miles sost of Alexandrisk. When even ing, the same point had to be used for door time. The cross-lings at Rosetta had to be mad during disright hours between 30 minutes last sources and 30 minutes before success that sources are so minutes before success that some of the restrictions were that and to some that the some that the some that and some that the some that the some some that the some that the some some that the some some that the some some that the some some some that the some some some that the some some

Christmas 1956 was not without its difficties. Bad weather had temporarily halted thelying however, the conditions improved and teperishables made it in time for the holiday. By the end of December 1956, the Five Boxcars had delivered 514,000 by of argo at One of three electronic warfare C-119s operated by the RCAF, 22112, was taxying at St Hubert, in May 1964. RCAF PL-150200

1,712 passengers. During a three-day airlift between Beirut and Abu Sueir they had flown 570 Indian and Indonesian troops and 144,000 to of their equipment.

Nihit he built of the RCAF detachment had at he Middle East by the end of Linaus, prosecond the Middle East by the end of Linaus, prosecond 114 Separation at Cappationhe India of Linau 115 Reputation at El Arish had three had sea for the Middle India of Linaus and Linaus (Linaus to continue High part of the UNEF in the Sinal Desert until the special sea four UNEF continued in UNEF exists and four ONEF continued in UNEF exists and the VIDER continued in UNEF exists and the VIDER continued in UNEF exists and the VIDER continued in UNEF exists when the Middle India of the VIDER exists the VIDER continued in VIDER exists the VIDER exists the

During the Belgian Congo airift into uspoldville, in September 1961, a pair of RCAF C-119s, aircrews and ground support personnel provided airlift assistance.

Exercise Rising Star

Seiveen 15 July and 1 August 1957, RCAFleguler and Ausiliary units participated in Exerose Reing Star. a large-scale summer training sercise conducted with the Royal Canadian Amy & Camp Gagetown, New Brunswick. The units few C-119s, North American Mitchells, North American Mustangs, and Douglas Dakotas for the exercise.

Routine Operations

America.

6119s flew routine cargo missions. Between 59March 1957, 436 Squadron flew 86,000 lb of sheet metal to the Mid-Canada Line radar sites. hMay of the same year they delivered de Havland Otters to Abu Sueir. On 20 February 1968 the squadron flew 10,000 lb of cargo from Datnouth to Guantanamo, Cuba, Tailplanes by the de Havilland Comets were flown to Dester England on 1 January 1959, On 9 Fibruary 1959, a replica of the Silver Dart was for from Mountainview to Sydney, Australia. spart of a 50th Anniversary of Flight celebraton A Ginie rocket, used on the CF-101 leaden, was flown from Utah to Toronto in May 1969. An iron lung was flown from Downsview sOtawa in September 1959. During that same north, a C-119 delivered fire-fighting equipnert to Summerside. The heaviest single item tibe transported was a 19,000-lb generator. During May and June 1959, the royal couple. Quen Elizabeth and Prince Philip, made a tour atCanada. The royal car, a Cadillac Series 75 Inquine (18th 81/in long and 6th 81/in wide, was ten from Windsor to Ottawa for use in a royal by An RCAF C-119 would fly the royal car semight to the next stop for royal couple's use. The C-119s flew in support of surveys and sentific expeditions, taking them north to the starregions and south to the jungles of South

In January 1955, four aircraft participated in Operation Rumba Queen deploying the men and equipment of 1 Fighter Wing, a Sabre unit. from North Luffenham, England, to Marville, France. No 435 Squadron provided aircraft 22125 and 22128: while 22126 and 22133 came from 436 Squadron. All four aircraft left Dorval on 3 January, headed for Gander AB. Newfoundland. One ship diverted to Harmon AFR while the remaining aircraft went on to Goose Bay and Bluie West 1. Keflavik and Prestwick. The first three aircraft arrived at North Luffenham on 9 January, followed by the fourth ship on the 10th. The Flying Boxcars could not refuel at Marville, and consequently had to fly the 300-mile leg with reduced loads of 6 to 8 tons (9 tons was normal). During Operation Rumba Queen, they airlifted 250 tons of equipment. Though dogged by bad weather, the C-119s completed the move of 1 Fighter Wing by 24 January, and arrived back at Dorval

A Boeing M-98 BOMARC interceptor missile was flown to Ottawa, by 436 Squadron on B November 1985. Missiles of this type would become operational with 446 Squadron at North Bay, Ontaino, on 28 December 1981, and 447 Squadron at La Macaza, Quebec, on 15 September 1982. The political uproar surrounding the IM-99 is another story – it did little to cement US/Canadian relationships.

During the first nine months of 1961, the RCAF Golden Hawks flight demonstration team performed at 53 airshows in Canada and another five in the United States. During this tour they were supported by C-119s from 436 Squadron. A C-119 from 435 Squadron was participal-

ing in a medical airlift to Thule AB, Greenland, on 11 November 1980. During that Right, the crew assisted in delivering an Eskimo baby boy. When interviewed by the press, one crew-man quipped that they were just maintaining their squadron motho — Certi Provehendi — Determined on Delivery.

Airborne Operations The Flying Boxcars provided routine support to

the Canadian Army for their paradrop operations. They flew paratroops for the following

operations: Loup Garou; Buildog I and II; St. Kits I, II, and III; Breakey; Jaques Cartier; Falcon; and Dash.

On 18 June 1956, nine Flying Boxcars from 436 Squadron set an RCAF peacetime record for the longest airlift. The ships had taken off from Edmonton and headed east via Winnipeg and Dorval. They arrived over Frederickton and dropped 350 paratroops from the 1st Field Regiment.

Electronic Countermeasures The C-119 Flying Boxcar was employed in a

most unlikely mission by the RQAF between May 1956 and April 1957. This role was that of electronic countermeasures. Three C-119 were modified by Northwest Inclustries in Edmonton, Albertia, and operated by 104 Corposite Squadron at 81 Hubert, Cauber Chris unit designation was in a state of flux between 1 November 1956 and April 1950, when t became 104 Communication and Calistation Fight on 1 January 1959 and then the RGAF Electronic January 1959 and then the RGAF Electronic operated a number of Douglas C-47 Delication (Later, these proceder driven architecture).

replaced by the Avro CF-100 Canuck.

These aircraft were equipped with a variety of jamming devices and chaft. They routinely were flown against North American Air Defense (NORAD) installations.

The three aircraft converted for this role carried RCAF serial numbers 22112, 22113, and 22122.

EPILOGUE

The C-119 Flying Boxcars served the RCAF faithfully from September 1952 until July 1965, in a variety of roles. During these years the aircraft proved to be most reliable in airdropping troops, supplying remote sites, and assisting in peacekeeping operations.

A number of RCAF C-119s were sold to fire fighting companies such as Hawkins & Powers in Greybull, WY. Others are serving in USAF base museums, ironically with their large radar noses. Disposition of many of these aircraft may be found in Appendix & armed

Fairchild C-82 & C-119 139 alfetta (2007)

Indian Air Force Boxcars

The new commander of the Bharativa Vayu Sena (Inclian Air Force). Air Marshal Subroto Mukeripe. hard taken over from the last Royal Air Force commander-in-chief in 1954. At this time, the Indian Air Force obtained the first of 26 C-119Gs to relieve the fleet of 70 war-weary C-47s that had remained in country after World War Two. No 12 Squadron was the first to receive the Flying Boxcars, and initially was a composite unit with C-47s. The C-119s were assigned to a Conversion & Training Flight within No 12 Squadron. During 1954, the Indian Air Force received a total of 25 C-119s. Several years later, the C-47s were transferred to the newly formed No 43 Squadron.

Indian Air Force C-119 Operations

The C-119s performed numerous airlift functions, including troop lifts, supply and cargo lifts, and aircraft hauling. A Hindustan Aircraft

1956 by a C-119G, serial number IK447. Relief supplies were airlifted from India to Egypt and Hungary in 1956 by IAF C-119s. In 1957. C-119G serial number IK451 flew the first Fol-

land Gnat from England to India for evaluation During July 1960, the Indian Army had assumed the responsibility for manning the Himalayan front. To perform this mission, airlift was essential. A second batch of 29 C-119Gs. was ordered in July 1960. These aircraft were assigned to No 19 Squadron, Under a US emergency military aid program, the Indian Air Force obtained another 24 C-119Gs in May 1963, bringing the total to 79 Flying Boxcars. These aircraft were assigned to No 12 and No 19 Squadrons: while the remaining four transport squadrons were equipped with C-47s and de Havilland U.1 Otters

By late 1967 the Indian Air Force has expanded its aidiff capabilities to include these inventories spread over these 12 transpor

Aircraft Type	No of Aircraft	No of Sqns	Sqns	Base
An-12B	16	2	No 25	Chandigraf
			No 44	
C-119G	79	3	No 19	Chandgrah
			No 42	Chandgrah
			No 48	Tezpur
C-47		3	No 12	Agra
			No 43	
			No 49	
U-1		2	No 41	Kashmir
1.14	24	1	No 42	Palam
V-2	18	1	No 33	Tezpur
HS.748	34	1	No 11	Palam





During the UN operation in the Belgian Congo during the early 1960s, No 12 Squadron dspatched aircrew and maintenance personnells operate the UN C-119s in that country. A second contingent went in June 1961.

Support of the ground forces in Ladakt necessitated that the C-119s operate from for remote airfields located at elevations as mutias 14,000ft above sea level. The airplanes routinely operated off 4,000ft-long dirt runway that were 3,500ft above sea level. On hot days. the density altitude took its toll on the open tional capability of the C-119s' R-3350 engines The operational capability of the Flying Boxon was creatly improved by the installation of aid engine on top of the fuselage. This Jet Page increased the safety margins by offering at additional 3,400 lb of thrust. The first installator of a Westinghouse .134 turbolet was arron. plished at the Overhaul Division of Hindustri Aircraft Limited, in Bangalore, India, with assetance from Steward-Davis, of Long Beach, CA Eventually, a total of 27 C-119s were retroffed

The first C-119G, IK450, was delivered by MATE 1739th Ferrying Squadron. The national Insignic patterned after the British, consist of a green dot in a white circle surrounded in grange. The national insignia were applied to the tops and bottoms of each wing and on each boom. Thefa flash is green, white, and orange, front to rear The serial number is applied to each boom and under the wings - read normal on the left and reversed on the right, W Lovd

IK450 displays its underwing roundels along with its boom markings. W Loyd Scanned

Here is a flight line full of Indian Air Force

By 1975, aircraft IK450 was retrofitted with the Steward-Davis Jof Pack. The aircraft carries its green, white and orange fin flash and roundels. The serial number is applied above the fin flash and repeated beneath the wing. "MDIAM AIR FORCE has been added to the fuselage. Courley, Avaison Week

Aircraft IK442 carried the letter B on the nose.

with this engine. A world's record was estabished on 23 July 1982, when one of these modfied aircraft successfully transported 32 personnel to and from a forward landing strip at Duslet Beg Olid, located 16,800t above sea well in the Karakorams Mountains.

The Chinese were engaged with Indian forces along the Himalayan front in the fall of 1962. During the third week of October, C-119s from No 12 and No 19 Squadrons flew in reinforcements of troops and artillery from Pathankot and Srinagar to the embattled 14th Infantry Brigade at Chushul. On 24 October, they flew in a troop of MK.13 tanks from the 20th Lancers for the delense of the Chushul airfield that was under stack from the Chinese. Between October and December, the C-119s flew day and night in supsort of the Indian forces. They made a significant metribution by airlifting the 5th Infantry Division. from the plains of the Puniab to the foothills of Tezpur - a distance of 1,200 miles Is May 1963 under the Military Defense

is May 1963, under Military Defensition Statistance Program (MDAP) the United States Lemihad the Indian Air Force with an additional se vLSAF C-11963 atong with 176 overhaled engines. Most of these airplanes were sugged to the newly formed NO-48 Squartorn. The Partatroop Training School at Agra operand nine C-11968 as projectoments for Hot-DATs by the end of 1963, over 70 C-11968 was in the Indian Air Force inventory, making are build of their airtif capability.

us he bulk of their airlift capability.

One Indian Air Force C-119G was destroyed on the ground at Pathankot by Pakistani F-86F Satres during a raid in August 1965. A subsequent Pakistani Sabre mission to the airfield at

Sighdagra claimed another C-119. The Indian Air Force resupplied the airfield at Agatals, some 200 miles northeast of Calcutta, with the Flying Boxcars. These missions were ton only at night because of the possibility of seast bot down by Pakistant flighters.

During the battle against the Pakistani forces December 1971, C-119s were preparing to safety peartnoops behind Jessore. The Boxsa were loaded with the troops and equipnet of the 2nd Battalion Parachute Regiment to were to link up with the 95th Infantry ligide. The Pakistani surrender negated the superment for the airdroo.

in October 1960, the Indian government again negotiations with the Soviet Union for spacement transport aircraft. In March 1961, telestAntonov An-12 Cub arrived to fill the air-





lift role in the Indian Air Force. Sixteen of these aircraft were initially obtained by India.

The Rharafive Very Sens lost all 46 aboard a

C-119 that crashed at Agra on 22 February 1980. Another C-119 was lost at Srinagar on 7 February 1982, killing all 23 aboard. Retween 1953 and 1984 the Rharethy Visus

OVERVIEW

Sens operated 89 C-119Fs.

The advertised performance of the An-12 was much greater than that of the C-119s. Powered by four 4,000 equivalent-horsepower lvechenko Al-20K turboprops driving four-bladed AV-68

reversible-pitch propellers, the aircraft had a maximum gross weight of 134 690b (as compellers) and the second of the second of the advanced in some respects, Antono six of advanced in some respects, Antono six of the second of the would have given the service celling light depetited rear rampidoors had be dieted thus eleminating its specification capability to dept 2010 particlogis in under mirrule. In essence, this later-generation are the heavy cargo drops already being done by the heavy cargo drops already being done by

the 10-year-old C-119s.



Fairchig C-82 & C-119 1

Republic of Vietnam Air Force

Regioning in 1968 President Richard M Nivon announced his Vietnessization program which was designed to reduce American involvement in the unpopular war in Southeast Asia. By the fall of that year the Republic of Vietnam Air Force (VNAF) transitioned from C-47s to C-119G Flying Boxcars. Selected Armée de l'Air Vietnamienne (Republic of Vietnam Air Ecroe) aircraws were either disnatched to the CONUS for training or attended a crew conversion course taught by a USAF detachment stationed at Tan Son Nhut. The payload capacity and loadability of the aircraft greatly enhanced the VNAF's tactical airlift canabilities. While the C-119s could not operate out of the high altitude, short runways at some of its bases located in the mountains, they more than doubled the organization's monthly cargo airlift canacity

ACQUISITION AND TRAINING

The VNAF named 16 C-119Gs in 1968 and another six in 1969. They acquired 24 AC-119Gs in 1971 and 22 AC-119Ks in 1972. In addition, an unknown number of RC-119Gs.

The 413th Transport Squadron (TS), 53rd Tactical Wing (TW), VNAF traded in its C-47

Gooney Birds for C-119Gs. By March 1968, a total of 16 Flying Boxcars was assigned to the unit. Three more C-119Gs were transferred to the 413th TS in 1970. Both flight and maintenance personnel received transition training at Ellington AFB, TX, that was conducted by reservists from the 446th TCW. Additional training was provided for the maintenance personnel at Tan Son Nhut AR South Vietnam

The Chief of Staff of the Air Force, Gen John D Ryan, directed that one squadron of AC-119s would be transferred to the VNAF in FY 72. The 413th TS was activated in September 1971. CONUS training was established as follows:

The eight-week Phase I training was provided to the VNAF crews by the 1st CCTS, Air Force Reserve at Clinton County AFR OH. Phase II training was conducted by the 4413th CCTS at Lockbourne AFB. OH. It increased the standard LISAE training by 25% (23 flying training days and 10 ground training days).

Eligibility requirements for the 48 pilots entering training were: - Pilots had to enter training not later than January

 Piints – Experienced C-47 (non-cunshin) upgraded to the C-119 in Vietnam. - Co-pilots - T-28 graduates who later attended C-119 Phase I training with the 1st CCTS.





Another 21 VNAF nilots entered training in FV 72. Additional training classes were provided for an initial cadre of: flight mechanics. wearons mechanics illuminator operators and navigators

Initially, seven AC-119Gs were transferred to the VNAF beginning in November 1968. These aircraft came from the 71st SOS. All but two went through extensive corrosion control and an Inspect and Repair As Necessary (RAN) program. These aircraft were serialled 53-8114 53-8089, 53-3145, 53-7833, 53-8115, 53-8121

AC-119 OPERATIONS

To counter the North Vietnamese advance that began on 30 March 1972, the United States expanded the VNAF's capabilities through Prolects Enhance and Enhance Plus, During te first phase a large number of squados strength aircraft deliveries commenced During this phase the VNAF gained a squadron of C-119Gs and a squadron of AC-119Ks. The first AC-119K transfer occurred on November 1989 1971 and graduate prior to 1 September 1971 This aircraft had previously served with the IRB SOS. Project Enhance Plus provided an addtional AC-119K squadron's worth of aircraft in total. Projects Enhance and Enhance Plus provided more than 700 aircraft to the VNAF

> The VNAF 5th AD was activated in January 1971, with its headquarters at Tan Son Nu AB. During September 1971 the 819th Atao Squadron (AS) was activated at the base and equipped with AC-119G Shadows. In December 1972 the 821st AS was activated at the base and equipped with AC-119Ks 8th squadrons reported through the 53rd Till Another unit the 720th Combat Squadratus also based at Tan Son Nhut AB and assigned to the 33rd TW. While equipped with RC-119. the reconnaissance equipment never became operational and the aircraft were employed in the transport role.

The Republic of Vietnam Air Force obtained a number of C-119s. This aircraft, C-119G-36-FA taxying at Da Nang AB, on 16 February 1971. The last three digits of the serial number appears: the forward fuselage. The letters NG are on the

C-119G-84-KM s/n 53-8133 was also seeled to the 413th TS. Compare the camouflage pattern on the left side of this aircraft with the on aircraft 53-3161. scanned

alfetta (2007)

In addition, C-119G-36-FA, 53-3157, was assigned to the 413th Transport Squadron, 33rd liling, of the Republic of Vietnam Air Force. The aircraft was at Tan Son Nhut AB, on 15 December 1970. The squadron insignia was scelled to the nose. N E Travior

C-119G-36-FA, s/n 53-3180, was photographed net to a C-124 at Paine Field, WA in April 1973. The C-119 was enroute to Southeast Asia to serve with the VNAF with its brand new SEA paint scheme. Note the external rudder lock.

In 1972, the 53rd TW, 1st AD, based at Tan Sen Nhut AB, Saigen, had five operational squadrons, two of which were equipped with the Flying Boxcer. The 413th TS had C-119Gs, while the 819th AS had AC-119Gs.

in December 1972. The BE1st AS was actived IT as Son March and was equipped with AC-1918. Singer gunships. This unit was essignated from the 4778 TS. The VIAVE arrows were more adept at night larged acquisite than their hermonic counterparts due to the three three more adept at night larged acquisite to the three three more adept at night larged acquisite to the three words, with six air division. Affetion due to accidente, combat seek, reterment, and budgeday constraints walked in the loss of around 500 aircraft from 1974. Whey give and 0.1724. Presidenter Novo 174.

Waterpate, could not provide any more support

to South Vietnam. The North Vietnamese



ments achieved only after the Christmas bombings during December 1972 in Operation Livebacker II. A new administration under President Gerald Ford was unable to sway an intractable Congress and no further aid was forthcoming for South Vetnam.

The North Velenamese select the opportunity and staunched an amessive statics during the wind part described an amessive statics during the view the last of the Army of Velenam defenders with the state of the Army of Velenam defenders of Bean Hoo AS Impossible. Regulated of Velenam Asset nortices and the state of the Army of Velenamese plots of 1975, inflation, North Velenamese plots of part of the property of the property of the property of the Army of the

provided cover. There were no FACs in the air that night. The AC-119 circled around the south end of Ton Son Nhut AR, firing at enemy troop concentrations and illuminating targets with flares and tracers for the A-1s. VNAF nilots flow out every aircraft they could, with their families. and hearlest for Thailand, North Vietnamese gunners downed an A-1 flown by a major from the 514th CS. Around 0700 hours on 30 April the AC-119 was struck by an SA-7 Strain missile and began to break apart. While three of the crew managed to bail out, one had his parachute tangled in the falling wreckage and was burned to death during his plunge. That night, 165 Republic of Vietnam Air Force aircraft made it to U-Tapan RTNAR. Thailand, including three AC-119s: thus ended an era for a nation and the airplane.

At least 36 C-119Gs were captured in southern Vietnam in 1975 and operated by the 918th Transport Regiment of the Khong Quan Nha Dan (Vietnamese Peoples' Air Force).



Other Military Packets and Flying Boxcars



After World War Two, the United States and its allies began forming coalitions to assure mutual security. Two of these coalitions were the Organization of American States and the North Atlantic Treaty Organization

Organization of American States With its roots in the Monroe Doctrine, a collective security agreement for the Western Hemisphere was established on 30 April 1948, and became known as the Organization of American States (OAS). The first meeting of the OAS was held in Bogota, Colombia with 21 nations in attendance. These nations joined together to preclude inter-

North Atlantic Treaty Organization As an outgrowth of the Marshall Plan, the North

Atlantic Treaty Organization (NATO) was formed on 4 April 1949. The Brussels Pact. signed on 17 March 1948, stated that if one of the signatories was attacked in Europe the other members would provide all requisite military and other assistance. These signatories were Britain, Belgium, France, Luxembourg, and the Netherlands.

In the US Senate, the Vandenberg Resolution was agreed to on 11 June 1948. It called for US participation in regional and other collective security arrangements outside the Western Hemisphere under United Nations

nations for a military defense alliance across the Atlantic Ocean. Twelve nations met in Washington, DC, to

sign such a military alliance agreement. They included the signatories of the Brussels Pad and added Canada, Denmark, Iceland, Italy, Norway, Portugal, and the US In a Senate vote of 82 to 13, the US accepted this collective security agreement on 21 July 1949. Ironically a similar concept had been rejected after World War One, Article V of the North Atlantic Treat stated that attacking one member of the aliance would be perceived as attacking all of them.



Too: This C-R2 was operated by the Force Aires Brasileira. National insignia are carried on the top and bottoms of each wing. The s/n, 2200, is anolied to the tail while the last three digits an repeated on the forward fuselage. 'C82' appears above the tail number. The upper portions of the rudder are painted green and vellow. As articorrosive black paint is on the lower half of the booms and ventral fins. G S Williams

Left: C-119s in the Brazilian Air Force had a natural metal fuselage with a white cap separ by a black cheatline. Black anti-corrosive paid was applied to part of the upper portion of the nacelle, cowl flaps, and lower half of the booms and ventral fins. The rudders were painted gree and yellow, C-119 and the s/n, 2303, were carried on the vertical fins. In addition, the unit insigns for 2"/1" was applied on each fin. The last three digits of the tall number were painted on the forward fuselage, G S Williams

Mutual Defense Assistance Act

The Minual Defense Assistance Act was nessed on 21 September 1949. It provided mil. tay aid to the NATO allies. Known as the Mutual Defense Assistance Program (MDAP). the main emphasis was placed on training and the furnishing of equipment. The MDAP remained in evistence until 1954 when it was renamed the Military Assistance Program MAP). For the USAF in particular, that was backed by America's Arsenal of Democracy. alled rations were supplied with used aircraft and equipment, and the requisite training for its maintenance and operation. This program permitted the American industry to develop newer weapons systems for the United States white providing continuity of compatibility with its alles.

Several smaller air forces also operated the C82 Packets and C-119 Flying Boxcars for both transport and paratroop missions. These arout were provided to the various nations as

Burillan Air Force

he Forga Aérea Brasileire (FAB), or Brazilian AForce, traces its lineage back to 2 February 184. Transport operations began in earnest in 184 with the acquisition of Douglas C-47 Skyrams. These were followed by a pair of Curtiss C-40 Commandos in 1948. In January 1956. 12 C-675 arrived at Base.

iss da Afonsos for operation with ? Grupo 3 frasporte (2nd Transport Group) which is redesignated 1º Grupo de 7ropas; (1st is possible of the frast operation of the frast is for operations in conjunction with Brazilser for operations in conjunction with Brazilarity a practice brigade. The 12 C-82s and setal numbers ranging between 2200 2211. The C-82s were replaced by the de siland CC-115 Buffalo in April 1958. These C-82s were transferred to the Força

Here transferred to the Prings Here Brazilerin: FAB serial 2065 (USAF serial 4584), 2200, 2201 (48-586), 2202 (48-585), 203, 2204 (48-580), 2205, 2206 (48-578), 207, 2208, 2209, 2210.

Been C-119Gs were transferred to the last AF Foce under MDAP during the lasrated of 1983. A twelfth acroatt was subsissely selevered to Brazil. The aircraft were yaped to P Gappe do Propas and carried at numbers between 2300 and 2311 (see socialist). The C-198 were replaced by the sched C-199 Hercules in November 1974. Upde the direction of the UN. the Forqui was baselized dispatched four squardors to force in July 1990, in two contingers, to force in July 1990, in two contingers, to

116-30-FA, s/n 52-6051, was OT-CBR, CP-38. It was later scrapped at Koksijde. IdDW Mecard

ILC-119F was identified as OT-CAK, CP-11. In the retrofitted white flat blade antenna on all the fuselage. The aircraft was later rouged at Koksiljde. G Pennick via 20W Menaci assist in the evacuation operation. The aircraft operated out of Leopoldville in the west and Kamina in the South Central Conce.

These units and aircraft made up the the second contingent of Força Aérea Brasileira the units dispatched to the South Central Congo.

Unit	Quantity	Type
1st Sqn	20	Douglas C-47s
2nd Sgn	6	Fairchild C-119s
3rd Sgn	8	De Havilland Beavers/Ottors
4th Sgn	16	Rell H.13s & Skrysky H.19s

The Força Aérea Brasileira lost C-119, serial number 2301, on 26 June 1974. The aircraft crashed at Rio de Janeiro, Brazil killing both crew members.

Relgian Air Force

The Belgian Ar Force is officially known as Force Africane Belgia, Belgian at transport operations started during World War Two from the British Islass Beginning in August 1946. Belgian air transport operations were based at Evier under 196 Wing. On 1 February 1948, the unit was redesignated 15 Venorei-are Verbiodinswing VWW [15 Wing Ar Transport]. The 15 VWW has No 20 and 21 Squadrons equipped with C-47s.

The first two C-119s arrived at Melsbrook Airport on 24 September 1952, and were assigned to No 20 and No 40 Squadrons for 15 VVbW. They were followed by another 44 Flying Boxcars. The 30,027-10 payload of the C-119 was a great improvement over the 7,496-

Ib payload capability of the venerable C-47. Following the British and French withdrawals from their African colonies in 1959, the Belgian government decided to give independence to the Relgian Coppo Independence was declared on 30 June 1960. Joseph Kasayubu was named president and a radical by the name of Patrice Lumumba became prime minister. The Europeans in the Congo began a mass exodus. Regioning in July 1960, sixtiff was provided by 15 Wing, using C-47s, C-54s. DC-6s, and C-119s operated out of Leopoldville in the west, and Kamina in the south. Security at these bases was provided by the newly formed Congolese Army under the command of Colonel Joseph-Desire Mobulus Tensions escalated as the Belgians began to intervene in the Congo. A force of 10,000 UN troops was airlifted to the theater, primarily by the USAF's 322nd AD operating C-130s and C-124s. A number of USAF Reserve units also C-119G, serial number CP-36, crashed at

Rushengo on 19 July 1960, after an engine had









also served with the Relaien Air Force. She was scrapped at Koksijde. Via J W R Taylor

C-119G, 52-6020, became part of the Italian Air Force inventory with the code 46-34. A silver aluminized finish was applied to the aircraft for corrosion protection. This aircraft supported the Italian Air Force aerobatic team and was photographed at Buchel AB. West Germany in July 1950. Subsequently the aircraft was painted in the camouflage scheme and recoded as 46-84. Today, the aircraft is on display at Rivolts. MSct D W Menard

46-28 was C-119G, s/n 52-6041. The aircraft was painted in standard camouflage with daygle orange trim. Note the red spinner and natural metal lower engine cowl. The aircraft was later scrapped at Pisa, MSqt D W Menard





he halan Air Force operated C-119G-36-FA, as 53-200, originally carrying code 46-48. Sebsquently the code was changed to 46-38, as shewn here with its faded camouflage finish. The alcoraft was eventually scrapped at Pisa. at Prançais

Force and was one of 47 that were converted to the C-119J configuration with the installation of the beavertail doors. This picture was taken at lossijde, Belgium, on 9 August 1969. This shoraft was later scrapped at Pisa.



sparted the aircraft. Of the 40 paratroops and one of 5, 37 were killed in the crash when the instalt struck 60th below the ridgeline. The legit survivors began a 50-mile hike through snow mountain passes and brush. Only half rate it to safely.

salistic training can be hazardous. During sensitios on 23 June 1983. C-1190 CP-45, sing 42 paratroops and a crew of five, was by an enant phosphorous mortar shell sidy a Bitish Army unit. The aircraft caught and crashed near Augustedor, West Gersy, Wille nise of the paratroops managed to yium from the aircraft, 33 of the parasal and the five crew members perished in results crash.

15 Wing operated 18 C-119Fs between Sepinter 1953 and October 1956, and 28 C-119Gs steem August 1953 and Sentember 1973

talan Air Force

iter World War Two, the Aeronautica Militare tame (AM), or Italian Air Force, operated a set of transport aircraft, some of their own sep, and others obtained as part of the ISIP By 1948, the AMI was limited to 350 aircraft 200 of which could be fighters and reconstance.

naissance, while the remainder had to be trainers and transports. Transports of Italian design used in the immediate post-war period included the Savoia-Marchetti SM.79, SM.82 and SM.102, and Flat G.12 and G.212.

Italy joined NATO in 1949, Expansion

requirements for the AMI in late 1940 resultant in a request for 0,502-0.478 that were being from the planness reversion in Europea. The MDAP board harmed down the Europea from the MDAP board harmed down the Europea from 1,500 per 1,500

The Aeronautica Militare Italiano acquired 70 C-119Gs and C-119Js between May 19S3 and January 1979. The first two C-119Gs were delivered to the 46° stormo Trasporti on 19 May 19S3. On 16 April 1954, the AMI transport unit was redesignated 46° Aerobrigata Trasporti. These transports were operated by three

squadrons, one transport and two aeromedical evacuation, assigned to 46° Aerobrigata Trasporti stationed at Arturo Dell Oro, Pisa, San

Adapting to the new aircraft was a major undertaking and required a new mindset in maintenance and operations. The C-119s, with almost twice the horsepower, in essence douwith the G.12 and G.212 aircraft they replaced. Such performance differences brought an instant halt to airlift operations as both air and ground crews went to school to learn new operational procedures, instrument flight rules, and weight and balance techniques. Flight without the rear clamshell doors also posed problems for the crews. To assist the AMI in coping with the new aircraft, USAFE instructors were dispatched to offer training along with a Mobile Training Unit. Other AMI personnel were sent to Canada and the United States to gain additional experience with the C-119s. Some crows were also sent to airlines for training.

Shortly after the C-119 was declared operational in the AM, crews began making overseas trips. The first occurred on 11 March 1954, when a crew went to a degot at Chateauroux AR Erance to obtain energ parts for their North American F-86 Sabres

An aerobatic team was formed within the Appropriation Military Italiano in 1953. It was clasignated the Getti Tonati within the 5t Aprohrinata Retween 1953 and 1955, a C-119 from 46° Stormo Trasporti/46" Aerobrigata Trasporti provided logistical support for the team.

The prestige gained by the Italians led to tasking by the LIN. A civil war broke out in the Congo in July 1960 and a flight of two C-119s from the 46° Aerobrigata Trasporti was sent to the area to evacuate Italian citizens. On 26 August 1960 a normanent hase was established at N'Dilli, near Leopoldville where they operated until December 1962. Between three and fourteen AMI C-119s were stationed there. The aircraft were marked with large letters describing "LINO" and "ITALIAN AIR FORCE" as a sign of neutrality. The Aeronautica Militare Italiano C-119s delivered food and medical faced with a lack of radio navigational aids and mans riddled with inaccuracies. Many of the so-called airfields were merely dirt strips. A lack of facilities resulted in the aircraft frequently being rotated back to Italy for heavy maintenance. Crews never knew who occupied the airstrips until after they landed. On 11 November 1961, 13 crew members from two C-119s were killed by rebel forces at Kindu airport. During the evacuation of the Congo in 1961. Dis-

teccamento Congo, 46º Gruppo lost four C-119s. Four Distaccamento Congo. 46º Gruppo C-119s were lost in the Congo operations.

After being in service for about 10 years, the C-119s were sent to SIAI for refurbishment. The aircraft were returned to service with a camou-

The AMI would have liked to have replaced Serial No. the C-119s with C-130s, but financial constraigts made this idea impossible. Instead, 25 C-119 is were obtained from MASDC supplies

at Davis-Monthan AFR, Arizona between January and March 1964. The C-119 is were equipped with beavertail doors that the Italians went into the inventory of the newly formed 50° Gruppo 46° Aerobrigata Trasporti

One C-119J crashed on its delivery flight. A second was destroyed in April 1970 when seven C-119 crew members and 10 oround crew personnel from the Frence Tricilori aerobatic team died in a crash that happened during take-off. These four C-119Js were converted into MID transports

Serial No. Code Remarks MMS1.8144 46.55 Converted for VP use in 1969

MM51-8158 46-62 Converted for VIP use. Written off July MM52,5831 46,30 Converted for VIP use in 1990 Converted for FW in 1975

MM53-8103 46-68 Converted for VIP use. Written off July 1979 and scrapped at Pisa. Another five C-119Js were converted for elec-

tronic countermeasures operations and assigned to 14° Stormo, 71° Gruppo Guerra Elettronica. These aircraft were originally delivered to the USAF as C-119Gs and subsequently retrofitted with beavertail doors and redesignated as C-119.ls. 14t Stormo employed these aircraft as electronic warfare testbeds. The conversions were accomplished by SIAI Marconi. Externally visible were radomes on the nose, fuselane sides, and/or helly Five C-119s were converted for electronics

Date Serial No Code Callsion Remarks

2 Feb 1961 MM52-6037 46-22 Unknown Kwamouth Congo. 15 Feb 1961 MMS2-6011 46-15 Lyra 15 Lulabourg, Congo, Crashed on take-off, total loss with some sunivors. 15 Sep 1961 MM52-6009 46-24 Unknown Kamina, Sustained heavy damage. 17 New 1961 MMS3-6014 46-10 Livra 10 Enterthe Tancanyka Conco. Creshed on take-off, total loss with some survivors



Remarks MMS1.8130 Converted by EW in 1975 Donnoad from inventory in 1989.

MM52-5884 Converted for FW in 1969. Written off in 1979. and scrapped at Verplate. MM52-5896 Converted for EW in 1973. Scrapped at Plea. MM52,6031 Converted for FW in 1975, Scranned at

Vergiste in April 1977 MM53-8146 Converted for EW in 1976. Dropped from inventory in January 1984

During 25 years of service with the Aeronautos Militare Italiann, it is estimated that the C.119 account a total of 301 619 flying hours

Republic of China Air Force

The Chung-Kuo Kung Chuan (Republic d China Air Force (BoCAFI) on Taiwan received a total of 16 C-119Gs under MDAP in 1959. Eventually, a total of 120 surplus C-119s were transferred to the RoCAF. Many of these aircraft were probably used as a source for spare. While some of these aircraft were replaced by 18 C-119Ls. a number of C-119Gs were retofitted to the C-119L standard on Taiwan. The aircraft were operated by the 101st, 102nd and 103rd Troop Carrier Squadrons, 6th Troop Carrier and Anti-Submarine Combined Wng. based at Pingtung. In addition to logistical supnort within the island of Taiwan, the C-119s nm. vided urgently needed airlift to the much contended islands of Matsu and Quemov. The venerable Flying Boxcars were phased out of the BoCAF in 1997 and replaced by I prished C-130s, much to the consternation of the Conmunist Chinese on the mainland.

Royal Norwegian Air Force No 335 Squadron Royal Norwegian Air Fren

operated eight C-119G from Gardermoen No. way between June 1956 and July 1969.

On 6 December 1968, aircraft BW-E, named Elmer, had been on a training mission with the clamshell doors removed. The landing approach was too low and the left main pear contacted the ground 13 meters short of the runway. The aircraft slid down the runway for 800 meters before coming to rest 10 meters to the left side of the runway. While there were no injuries the C-119 was severely damaged when ground

vaged and the aircraft was scrapped. Fight C-119Gs were assigned to Notice Squadron, Royal Norwegian Air Force and an ried its Norwegian serial number and squador code in addition a name was applied to the left side of the nose of each aircraft. The USAF set ial on the fin was retained.

Initially, C-119s transferred to the ROKAF was in natural metal finish. This aircraft, C-119G36 FA, s/n 53-3153, retained its USAF number. National insignia were placed on the top and bottom of each wing, and on the booms. The rudders were painted with alternating blue and white stripes. Via N E Taylor Scanned

Right C-119L-FA, s/n 51-7985, was assigned ROKAF s/n 3160. It too was retrofitted with three-bladed propellers. A blue stripe was applied from the sess aft beneath the cockpit windows, and the prop hubs were painted blue, indicating that the aircraft was assigned to 103 Squadron. The squadron insignia was carried above the nose number. Benjamin Yu via

Billow left: C-119L-FA, s/n 51-8060, appeared in the SEA camouflage scheme, and carried ROKAF s/n 3120. The blue propeller hub indicates that the aircraft was assigned to No 103 Squadron. While the squadron Issignia was placed on the nose, the 6th Antisubmarine & Transport Wing insignia was applied to the vertical fins. Benjamin Yu via Ruud Leeuw

Blow right: C-119L-KM, s/n 51-8150, was given ROKAF s/n 3204, and assigned to No 103 Squadron, Benjamin Yu vis Ruud Leeuw









5119G, sin 51-2693, was supplied to the Royal torregian Air Force and became BW-B, serving with the 335th Transport Squadron. It had ingle orange paint on the nose, wingtips, and toms. This picture dates from April 1967, The talage lettering read 'LUFTFORSVARET', By 7 lay 1969, this aircraft was in storage at MASDC It 23 January 1976, the aircraft was sold to fair, Inc., Tucson, AZ, where the airplane was of up for scrap. S Peltz via P M Bowers

\$119F, sin \$1-2705, as she appeared in the later Imegian Air Force markings and carrying the mis EW-G. This aircraft was at MASDC by 10 aly 1969, and sold to Southwestern Alloys, Inc. lissen, AZ, on 13 July 1976, and scrapped.



Civilian Packets and Boxcars

A number of C82 Packets and C-119 Fiying Boccas found their way into the collising Boccas found their way into the collising the United States. Their collisin uses ranged from standard transports to fire bornteers, from the collision of their collisis uses an action C82 Packets and DC-119 Fiying cases carried US civil registrations as of the midtible. Some of these antiplanes were employed in air cargo-operations while a number of C-119 were used in support of US Freeting Service first fighting operations. The Service first fighting operations while a sumber of preliment in support of US Presents Service first fighting operations. US registered preliments in support of US Presents preliments in support of US Presents preliments in presented in Appendix C.

Civilian Type Certificates

As the C-82s and C-119s became excess to US military requirements, they were made avail-

able on the civilian market and carried imited type certificates that were issued by the Coli year control of the coling of the coling of the coling Federal Avision Administration [FAR]. The CAA, and state FAA, issued a Type Certificate (Tab Sheets for certain modification modification were applied or, and granted to specific companies, allowing a variety of special purpose operations including specialized cargo transport, carriage of the coling of the coling port, and the coling of the coling of the port, carriage of the coling of the The table operation surrounders the civilian The table operation surrounders the civilian

Type Certificates (TCs) issued by the FAA.

Steward-Davis Jet-Pak Conversion

Steward-Davis Jet-Pak Conversion
The Steward-Davis Company, Los Angeles,
CA, has always been a nuts-and-bolts engi-





neering firm. They began development with the US Navy surplus Westinghouse 1,600-bits. Uncloses. These were the first jet engines to be built solely on US technology. Normally flow operations of the programment professed acrost corporates in a gramman of the professed points of the professed points and technology of the professed points and technology of the professed points and technology of the professed points of the professed points on the professed points on the professed points on the professed points of the professed points on the professed points of the professed poin

A number of engineering changes were made to the Cell's oredure its empty weight from 31,488 to 10 something in the order of 20,000 b. The electric lainfing gear active layouting system was replaced with a hydraufic system was replaced with a hydraufic system were replaced with lighter ones coming from the heavy same gare wheeled and brisker engineers effort, a pair of J.50s was installed in a single side-by-side pod above the wing content of too. Even with these engineers betton. Even with these engineers the crecity weight was only approximately 28,000 lb.

During certification testing at Edwards AFE CA, in 1960, a C-82 with a single J30 egpir proved a maximum gross weight of 45,000 without use of the jet and 62,400 to with the jit. As a follow-on to their C-82 Jet-Pak effort.

ment of a similar installation for the C-119 in January 1961. By March 1962, construction a prototype was begun and the first fight occurred in September of the same year. The initial 26 C-119s retrofitted with the Jot Pil

occurred in September of the same year.

The initial 26 C-119s retrofitted with the Jet Pawere accomplished as field modifications for the initial Air Force, which are described elsewhere the properties of the

Formerly an ARS alrcraft, C-82A-FA, sin 44-23029, the aircraft carried the scrae on the ber from its prior service. N422V was converted into a sprayer for use by Skyspray from Redmond, CA, under a restricted license, at denoted aft of the forward entry door, Spray bars were mounted under the wings. The lettering on the nose read "UNITED Hecksheir EM Sommotich via PM Blowser."

C-82A, s/n 48-578, carried US registry NATES: when she was operated by the Shelton Oil Company, Remnants of the Insignia Red Aric trim remained on the empensage, whereas the national insignia and tall number had been removed. The aircraft was photographed oil Anchorage, AK, on 21 September 1963.

Val NETaylor scanned

CNo	Issue Date	TC Holder	Model	Major Modifications	Limitations	Serial Numbers
R-15	7 Jul 1965	Steward-Davis Inc 3200 Cherry Ave Long Beach, CA	C-82A	I. None	Neight limitations (lb) Over congested areas 43,560 T/O 42,000 kg Over uncongested areas 43,560 T/O 43,000 kg Over uncongested areas 43,560 T/O 43,500 kg Pilot & co-pilot + seats & seatbelts for other personnel necessary to operate special equipment.	42-2299 thru 44-22968 All others
	21 May 1961			II. Alternative recip engines. 1 Westinghouse JSO jet engine Restricted Category.	II. Weight limitations (b) Over all areas 50,000 TiO 42,000 log. 50,000 TiO 47,000 log. 54,000 TiO 54,000 log. 54,000 TiO 54,000 log. 54,000 TiO 54,000 log. First & co-plot + seats & seathelts for other personnel necessary to operatic special equipment	44-2399 thru 44-23968 44-2399 thru 44-2393 & 44-23004 44-2394 thru 44-23058, except 44-23004 45-57733 and subsequent
	23 Jul 1963			IIII. Recips as III. 1 Westinghouse J34 jet engine Restricted Category.	III. Weight (imitations (b) Over all areas 50,000 TiO 42,000 leg. 50,000 TiO 47,000 leg. 54,000 TiO 54,000 leg. 54,000 TiO 54,000 leg. 54,000 TiO 54,000 leg. personnel necessary to operate special equipment	44-2359 thru 44-2368 44-2369 thru 44-2393 § 44-23004 44-2399 thru 44-23058, except 44-23004 45-57733 and subsequent
OWE	11 Mar 1970	Aero Union Corp Municipal Airport Chico, CA	C-119C	None, other than floor rollers per Aero Union engineering drawing. Also certified for special purpose of horest & wildlife conservation with cargo door installed. Restricted Category.	L. Limited to flight onew & number of persons essential to perform its intended function. Cargo handless must wear safety harmsess that are secured to aircraft structure during all drop operations.	48-319 thru 48-355; 49-101 thru 49-199 50-119 thru 50-171 51-2532 thru 51-2594 51-2587 thru 51-2961 51-8233 thru 51-8273
	29 Sep 1971		C-119G	II. None, other than floor rollers per Aero Union engineering drawing. Also certified for special purpose of forest & wildlife conservation with cargo door installed. Restricted Category.	III. Limited to flight crew & number of persons essential to perform its intended function. Caspo handless must wear safety harmsesse that are secured to aircraft structure during all drop operations.	51-2862 thru 51-8168 51-17365 thru 17367 52-6000 thru 52-7884 52-5840 thru 52-5954 53-6069 thru 53-8156
	20 Mar 1972	Hawkins & Powers Aviation, Inc Greybull, WY	C-119G	L. Recips plus 1 Westinghouse J34 furbojet. Modified per Hawkins & Powers engineering drawings. Restricted Category.	Limited to flight crew & number of presone essential to perform special purpose operation. Certified for special purposes of agricultural operations, towest & widdle conservation, aerial surveying, certified or of corps, For carrying faith & fish industry related cargo, aircraft must be additionally modified per Hawkins & Powers engineering of damps.	51-2662 hru 51-8168 51-17365 fru 17367 52-6000 hru 52-7884 55-6009 hru 53-8156 53-3137 hru 53-3163 53-3201 hru 53-3163 53-3201 hru 53-3216 53-7686 hru 53-7884
KOW	31 May 1979	Starbird, Inc 933 Stitch Road Lake Stevens, WA	C-119L	None Restricted Category.	Certified for special purpose carriage of cargo. Operation over populated areas is prohibited.	51-2662 thru 51-8168; 51-17365 thru 1736 52-8000 thru 52-7884; 52-5840 thru 52-595 53-8069 thru 53-8156
SW.	24 Apr 1981	Pacific International Foods, Inc 18306 59th NE Arlington, WA		None except a loading assist device. Restricted Category.	Limited to flight crew & number of persons essential to perform its intended operation. Certified for the special purpose carriage of cargo. Operation over densely populated areas is prohibited.	BuNo 131696
420E	7 May 1981	William Warra 2861 14th Ave Columbus, OH	C-119L	Modified per Warra engineering drawings for the special purpose of agricultural dry chemical spraying. Alt cargo doors must be installed. Restricted Category.	Limited to flight crew & number of persons essential to perform its intended operation.	\$3-7884
1802	12 Nov 1981	Bud's Flying Service, Inc RFD 1 Rising City, NE	C-119L	None Aft cargo doors must be installed. Restricted Category.	Limited to flight crew & number of persons essential to perform its intended function. Operation over densely populated areas is prohibited.	53-3144
201	31 Mar 1982	DMI Aviation 5080 East Nebraska Tucson, AZ	C-119F/ R4Q-2	None Restricted Category.	Limited to flight crew & number of persons essential to perform its intended function. Operation over densely populated areas is prohibited.	BuNo 131689, 131673, 131700 & 131677 seanned







The Steward-Davis Jet-Pak installation on top of a C-82 at Long Beach CA. A flapper door closed off the inlet when the engine was inoperative. Steward-Davis

N74127 was formerly C-82A-FA, s/n 45-57807, after service with Latin American operators. She served as the Steward-Davis prototype for the C-82 Jet-Pals. The company logo appeared both on the nose and tall of the alr

This Steward-Davis-modified C-82 reveals its flight characteristics with the No 1 engine feathered. The boost from the small jet engine permitted straight and level flight with an engine out. Steward-Davis

around a single 3.400-lbst Westinghouse J34 engine mounted above the wing center section. Later, at the request of the Indian Air Force. Steward-Davis developed a three-iet version that added a detachable J34 under each wing These units were designed for quick disconnect, thereby permitting field removal should a three engines, a 77,000-lb maximum takeoff weight could be achieved. With the both the piston and jet engines, the maximum cruise speed was 168-175 knots (194-202mph), 203-262 knots (234-302mph). A phenomenal 1.200-3.500ft per minute rate of climb could be achieved at sea level. Airnlanes with this modfication were known as Steward-Davis/Aircrift International STOL masters

The Jet-Pak nacelles incorporated list doors that eliminated the draig induced free windows that eliminated the draig induced free windows limiting engines. With the Steward-Dise modifications to the Westinghouse JR4, the power package was designated Jet-Pak s842. The detachable wing pods were intercharge-able, left and right, and between airplanes wing hard points. In a rebutfal to an Aviston Week & Steward points.

In a resortal to an Avention Week 4 seek and 1960, Herb Soward. President of Steek Davis, Inc., stated that a C-119 with R332 may 1960, Herb Soward. President of Steek Davis, Inc., stated that a C-119 with R332 may 1960, Herb Soward Period Could County and Appropriate Stream of Davis July Pila. Configuration, soil Pila. Soward County Co

In 1961, the US Federal Air Regulations are amended to permit certification of supe C-62s with the Jul-Pia. Steward-Dais observed some investors by early 1964 and went toth conversion businesses in earnest. The first on mercial installation was made on TWA's 0tm using a 3.40-bit Mestinghous 93. Earts, ally their business partners went barkeyst Steward-Davis, unable to find another game quickly, was forced to accord proyed 50 bits. Steward-Davis later developed a twin-jet retrofit package for the C-119. The prototype STALMASTER was installed on N383S, formerly RCAF C-119F-FA, 22133. Steward-Davis

Flying Mail Car

Fachthi had converted a C-82 for use as a Flying Mail Car. The conversion made a working sector in the middle of the cargo compariment, a mail bag stowage area in the forward ass; and a bag rack, looked registered mail its, and a looker in the aff section. The aircraft had about 95% of the capacity of a standard artical mailest. Dut is six from of mail could be article and the country of the country of the tors could be carried 1,200 miles.

Area & cort armed service was instituted by the Control of the Con

The Insugural flight carried 13 people includcy Capital Edgar Heis, UMLs 1 New York flight sprinsdert, Dan Herry, Faichild's chell spitt, Dean Smith, Faichild's Detector of Inequality. The Insufficient of Insufficient Control Sprinsder Commercial Salary Sal

Notes, and E.S. Ransome.

This operation was of little practical value and had a short duration.

TWA's Ontos InGreek, Ontos means 'thing' – appropriate for

Is CAE from by Trans World Airlines as a enterance support ship. The USAF had sonly released 120 of these aircraft for chilpurhase. However, this aircraft was tased in a rather unusual manner. The TVAot, II, Temble, was introduced to the aircraft hope 40 hours of bying with 12 behavimmer, later of Bedek. Aviation at Lydda Airport, later of Bedek. Aviation at Lydda Airport, us Schwimmer had been demonstrating is aircraft for the Israeli Air Force. haarrant was onlyinally powered by a pair

#2100-hp P&W R-2800-85 engines. Trimble

Insud-Davis engineers and technicians install illusinghouse J34 turbojet on the prototype 518 Je-Pak airplane. A field-detachable ste strik is rounted on the wine hard points.



found a pair of surplus R-2800-CR16 engines with a single-stage supercharger, which had come from TWA's Martin 404 inventory. With the consultation of Egirchild Pratt & Whitney and Hamilton Standard, it was suggested that a Fairchild J44 turbolet engine with 1,000 lbst be added. The engine had a diagonal-flow compressor followed by a single axial stage missile. This change would permit increasing the gross take-off weight from 49,000 lb to 50,000 lb. and also enhance the single-engine performance of the aircraft. TWA approved of these changes procured the aircraft for \$50,000, and budgeted another \$100,000 for the flying maintenance base that this aircraft would become. TWA purchased the C-82 from Schwimmer in June 1956

Further modification consisted of replacing all of the wiring with 50,000ft of wiring based on the Lockheed Constellation, in addition, all of the radios would be replaced to the Constellation standard. Some of the equipment was so new that it would not appear until the advent of the Boeing 707. The modified aircraft went into service in Avril 1967.

service in Open Both Control (MV). In maintenance is a service of TMVA maintenance in Concession TWA contracted with Air France for the use of their hangest and eigenty flags littles and the service of the maintenance and service for the service for the service for the service for the service flags and other control service for the service flags and the service flags and

eef Consisterior In addition, at of Libya - Chandigan, India - Karach, India

Farcher C-82 & C-119 alfetta (2007)





United Air Lines operated this C-82, NC8855, named The Flying Mail Car., with its NC (US commercial) registry. The aircraft, photographed in 1935, flew as a mail carrier on US Air Mail Route 1. P M Bovers

The completed Steward-Davis jet pod mounted on the TWA C-82 is shown in this left oblique view of the aircraft. Steward-Davis

Wien Alaska Airlines operated N51028, Steward-Davis conversion of former USAF C-82A-FA sin 45-87782. During this stage of its career the aircraft carried this blue and white paint scheme. D D Olson via P M Bowers



by alfetta (2007)





sasequently, Interior Airways of Alaska sperated NS192B with a modified livery. Note too the word 'RESTRICTED' was added behind he satry door. Museum of Flight

Then Studebaker announced its new atmobile, the Avandt, they went first class with alternative attended in the Avandt, they went first class with alternative properties of the Avandt o

Ill later in its in its career, N5102B was abped of her markings and had a name latting of her age and condition - Of Rattler. Bass photographed on the east side of long Ratd, WA, in 1961. P.M. Illowers







of Land Management when photographed at Anchorage International Airport, AK, in April 1972. To the rear is ex-USAF C-119C-14-FA. six 48-0152, now carrying registry N13746.

Bombay, India - Calcutta, India - Bangkok Thailand - and Manila Philippines One engire would be dropped off at Bombay, and the other at Manila. A shorter, 57-hour, 10-day trip would he flown as far as Romhay. In one year the CAD could save \$250,000 Later Ontos was retrofitted with the Steward-

Davis Jet Pack consisting of a single Westinghouse J34 axial flow turbojet mounted on topal the wing center section. The Jet Pack modification is described below. Certification was accomplished by the former co-pilot and the pilot Captain Claude Girrard. He later became TWA's Paris-based VP for Flight Operations. The airplane was uply as sin, being a refuge

from Israel with a Greek name operated under Ethiopian registry by an American airline fund from a French airfield. It was a mixed up creeture with four engines - one on each wing one on its roof, and one in its belly

Built as a C-82A-FA, serial number 45-57814 the aircraft was registered N2047 when initially operated by TWA. When the Steward-Davis et pod was added it was re-registered ET-T-12 and then N9701F. The aircraft later returned to the United States and was operated by Briss Wing and Helicopter. Subsequently the aircraft served with Northern Air Cargo, and later Hawkins & Powers. Today the aircraft is main

The complete Steward-Davis Jet-Pak J3402 installation on a C-119 was nestled under the wing. The bulged fairing accommodated the engine accessories, Steward-Davis The Steward-Davis Jet Packet J3402, with both

engines feathered and the gear down, was able to maintain straight and level flight. scanned

alfetta (2007)



This immaculate three-tone C-82 was operated by Flying B, Inc of Anchorage, AK. The dual engine infet is revealed in this view. N E Filer

tained by Hawkins & Powers at the South Big Hem County Airport, Wyoming and on occasion is flown to airshows and other events where it is a welcome addition to the program.

Latin American Operations

American Operations

C&2 Packet during the mid-1950s and 1960s. These aircraft were known as Vagoes Voladores. CMA/Mexicana acquired five of these aircraft in 1966 for use in their cargo operations. In order to improve the yaw characteristics of the arraft, they installed long dorsal fillets. Mexican's fleet included these aircraft:

Registry	USAF S/No
MALIZ	45-23051
MALOJ	45-57740
MALOK	45-57756
MALOL	45-57766
IBPEK	45-57807

These aircraft were in the Transportes Aereos

Registry	USAF S/No
WLZ	45-23051
MITTAL	44-2348

Transportes Aereos Guatemalecos operated C&2A 45-23050 as TG-DAC-79. The airplane tas eventually scrapped in Miami, FL.

Registry	USAF S/No	Remarks
2-677	45-57747	Crashed at Sasasama on 15 March 1970
07-678	45-57758	Crashed at Santa Cruz on 26 November 1960.

Alateca Guatemalteca also operated C-82

Registry	USAF S/No	
TEATA	44-22962	
TERRA	44-57832	
TE-EUX	44-23034	
TSAZA	45-23025	

b USAF C-62A-FA, s/n 44-23001, was initially per US registry N6690C. Rivaereo, of Chile, wated this Packet with registry CC-CRB, then ICAE. A Steward-Davis jet pod had been nalled when this photograph was taken. I/3ebb view MScf D W Morard



Aerovias Guest acquired a pair of C-82s in

Registry	USAF S/No	
XA-LIK	45-57758	
XA-UL	45-57747	

Cruzeiro, the domestic operator in Brazil, took delivery of a number of C-82s in 1958. These aircraft were primarily used to haul spare engines. One of these aircraft, PP-CFE, had the ignormity of ending its career as a night club in Rio de Janeiro in 1965.

Registry	USAF S/No	Notes
PP-CEH	45-57745	Crashed at Guanabara Bay, Rio de Janeiro on 11 Jan 1958
PP-CEJ	45-57786	
PP-CEK	45-57777	
PP-CEL	45-57783	
PP-CEM	45-57810	
00.000	45,57990	

Honduras obtained a single C-82, FAH 793, through a different route. The aircraft was pur-

chased as surplus in Miami, FL, sometime in 1957, but it was not delivered until April 1958. This aircraft, being a single ship, proved to have serious mechanical difficulties – probably due to a shortage of spare parts. Over a five-year period, the aircraft was used only intermittently before being safe.

before being boild.

Brazil obtained 12 C-82s directly from the
USAF as part of the Mutual Defense Assistance
Program (MDAP) in 1986. One of these eirost,
45-57783, subsequently flew with VARIG of
Brazil as PP-CEL and now is preserved at the
Brazilian Air Force Museum in Rio de Janeiro.

VARIG, the Brazilian international carrier, obtained a number of C-82s in 1958. These aircraft were:





Several minor Penavian airlines operated the Tale of a Caribbean Packet C-82. Compania Aereo Mercantil, SA (CAMSA) C-82 45-5773 had been purchased by David Losley. He leased the Packet to an affiliate of

had one Packet. Rutas Aéreas del Peru, SA (DADSA) also operated a single C-82 Expreso Aereo Peruano, SA flew three of these aircraft between 1956 and 1962. Transperuana de Aviacion operated a single C-82 between 1964 and 1967

In Columbia, Lineas Aéreas del Caribe (LIDCE) operated three C-82s for their cargo operations from Barranguilla and Bogota, One of these aircraft, HK-426, with the name Arauca under the cockpit, was last known to be resting without engines at Eldorado International Air-

During the late 1950s Aerovivas Monder operated a C-82 with the registry CX-AQA. The company provided non-scheduled service to

Miami Florida The Ohio Oil Company of Guatemala operated at least four C-82s.

Registry	USAF S/No	
TG-00C-2	45-57802	
TG-000-3	45-57734	
TG-00C-4	45-57795	
TG-000-5	45-57793	

DC-3s and a Consolidated PRY Catalina While with SAHSA the C-82 carried registry HR-SAM. The company had won a contract from Esso Oil to fly gas cooking stoves for the oil The Packet was subsequently sold to 'Doc' George Byron Adler Alder, an entrepreneur who was a Cessna dealer in the Caribbean. Alder had the Navy; hence the moniker 'Doc'. The aircraft

Pan American World Airways, Servicio Aero de

Honduras (SAHSA), that operated a number of

was re-registered as N4834V. On the afternoon of 29 July 1965, the C-82 was flying between Lake Front Airport, New Orleans and Guatemala City while under the command of Captain Wendell W Levister, aka Black Eagle. While approaching their destination, they encountered a number of tropical thunderstorms, which resulted in one airport after another going below minimums. The ADF was all but worthless

because of the static created by the storm's electrical activity. As the storms enveloped the entire Yucatan Peninsula, it was getting dark and Guest Accourse Maxico operated YA-I II, on its cause resides. I star the aircraft consisted with Associas Condor as CR-677. The aircraft was ex-HEAE C. 93A.EA a in 45-57747. Moreover of Eliciti

Using dead reckoning, the crew of three broke out of the clouds, headed for what they thought was Merida, and spotted some lights on what appeared to be a coastline. As they circled the lights, the No 2 engine sputtered and died due to fuel exhaustion. The decision was made to put the airplane down immediately.

The No 1 engine died of fuel starvation and the pilots set the aircraft up for a stall. Shortly thereafter the crew felt the aircraft strike the water. An order was given to open the too hatch and egress before the airplane sank - it did not They had come to rest on a sand bar with the waterline at the level of the escane hatch

met the fortorn aircraft. The rescuers asked if there were any injuries. With the entire crew intact, the rescue officer valled. Then welcome to Compache, Movino, ' A cool head on the pat of Cantain Levister averted injuries and fatalties under most daunting conditions.

The aircraft was not salvageable and salt water immediately began corroding its aluminum structure

Latin American Losses

At least 11 C-82s were lost during Latin American civilian operations. Known losses are listed in the table below.

Hollywood Packet

In 1965, Twentieth Century Fox Studios released a film entitled Flight of the Phoenix, that was directed by Robert Aldrich, Buttercup Valey Arizona served as the backdrop for the film. The movie featured Jimmy Stewart Richard Attenhorough Peter Finch Hardy Knaper, and Errest Roranine, A C-82 belonging to Steward-Dark was used in the movie. In the film, a C-82 became lost over the African desert and crashed. One of the passengers, a model airplane designs. suggested building a single engined arcsit from the wreckage. After much haggling analy-

Date	Operator	Registry	USAF S/No	Location	Remarks
30 Oct 1957	TAMSA	XA-LW		Campoeche, Mexico	During climb out from Campeche International Airport with a load of freight. 3 on board/3 fetalities.
11 Jan 1958	Cruzeiro	PP-CEH	45-57745	Rio de Janeiro, Brazil	During initial climb out from Rio de Janeiro Santos Dumont Airport on a training fig- Instrument flying screens were in place. The aircraft lost atitude and struck a benie before crashing into Guanabara Bay. 2 on board 0 fatalities.
16 Jan 1958	Cruzeiro	PP-CEF	45-57812	Belem, Brazil	The No 1 engine caught fire after take-off while on a freight flight. 3 on board@fatall
26 Jan 1960	Cruzairo	PP-CEM	45-57810	Rio de Janeiro, Brazil	Damaged beyond repair.
24 Aug 1960	DAG	CP-665		El Palmar, Bolivia	The aircraft crashed.
26 Nov 1960	Aerovias Condor	CP-678	45-57758	Santa Cruz, Bolivia	The aircraft crashed.
29 Jul 1965	'Doc' George Byron Alder	N4834V	45-5773	Campoeche, Mexico	Ditched on a sand bar, 3 on board (0 fatalities.
15 Mar 1970	TABSA	CP-677	45-57747	Sasasama, Bolivia	
Oct 1970	Amazonia Comercio e Industria	PT-DLP	48-584	Unknown	
28 Oct 1970	Amazonia Comercio e Industria	PT-DNZ	48-578	Serra do Norte, Brazil	
27 Jan 1977	T A Itenez	CP-983	45-57777	San Ramon Airport, Bolivia	Crashed on take-off. 6 fatalities

the fuel state was becoming precarious.

Initially this aircraft was given civil registry XB-PEX. C-82 XA-MAW was flown by Mexicana Airlines along its cargo routes. It is interesting to note that dorsal fillets were added on top of aircraft was ex-USAF C-82A-FA, s/n 45-57807 Subsequently, the aircraft was re-registered as CP-697 with Aerovias Condor, and then returned to the US where she operated with New Frontier Airtin as N74127. The aircraft also served as the prototype for the Steward-Davis Jet-Pak Installation, D.D. Olson via P.M. Bowers

nlane is built utilizing one pacelle and tailhoom a pair of outboard wing panels, and an intriguing pair of skis supported by some of the fuseage frame structure. For the passengers to hard on to handholds were attached to the wing top surfaces. The result was a cobbled-up machine utilizing parts from a North American T&Tevan and a Beach C-45 Expeditor. The five ing scenes were performed by Paul Mantz. He was killed flying the mongrel machine and the movie was dedicated to him. To complete the fim. a North American O-47 was employed for he fiving scenes of the strange similare The fiming was so well done that only a skilled observer can discern the switch.

For some of the flying shots in the film. Steward-Davis provided C-82 N6887C.

Hellywood Déla Vu

After protracted negotiations for a suitable airgaft. Hollywood was able to remake the Flight of the Phoenix using C-119s instead of C-82s. The Comutair R4O-2. RuAir 131700, was resting in Nairobi. Kenya, and would have been ideal for the new film - relatively easy to restore to operational condition, and closer to the filmin locale. It is believed that this aircraft was

the employed in the movie as a prop Hawkins & Powers had C-119F. RCAF s/n 121131, in storage at Greybull, WY, with reg-May N15501. This aircraft was restored to airanthiness standards. The 50-year-old aircraft was flown to Namibia for use in the flying scenes in the film and returned to Greybull. ther an enic flight via Brazil in June 2004 In addition, the filmmaker found a pair or

swelct R4Qs in an aircraft bonevard in Tucson. They paid \$50,000 each, had them dismantled and trucked to Galveston, TX, and then shoped the parts to Namibia

by Fox Studios, under the direction of John Moore, and stars Dennis Quaid.

FOREST FIRE FIGHTING

Several operators employed C-119s in support If fre fighting operations in the west; including lowins & Powers in WY, and Aero Union and Nmet Valley Flying Service in CA.

Ewkins & Powers

takins & Powers Aviation, Incorporated has ten in business since 1969, operating a variavelaircraft for fire fighting and seismic explo-



ration from their base in Greybull, WY. The comnany evolved from Chrysler-Avery Aviation a company specializing in agricultural spraying and fire fighting since 1958. Hawkins & Powers was founded by co-owners Dan Hawkins and Gene Powers, Duane Powers is currently the principal in the company, Included in their inventory was the Fairchild Flying Boxcar. At least 21 ex-RCAF and two ex-USAF C-119s

were operated by Hawkins & Powers The aerial tanker fleet numbers were carried on the Steward-Davis Jet-Pak cowling. As may be seen, the fleet numbers were duplicated

mer RCAF C-119Es. Information is given in the table below. During the summer of 1981 Hawkins & Powers ship No 138, registry N8682, was employed

ment to drop fuel bladders to fire fighting heliconter parts in northern Alaska. One 4 500-lib fuel bladder had been dropped at a site some 30 miles south of Bettles Field near the village of Allakaket close to the Koyukuk River, Each fuel bladder was mounted on a pallet that rolled on roller travs mounted to the main cabin floor A pair of 64ft diameter parachutes eased the load to the ground when dropped from an altitude of about 400ft above ground level. The first drop was successful and the plane headed towards the second drop zone. The No.2 engine began smoking then exploded. Fire over time. All but two of these aircraft were forspread along the right tailboom. (Remember that the control surfaces on a C-119 are fabric covered.) The pilot. Ed Dugan, a former USAF F-100 pilot in Southeast Asia with over 1,500 skydiving jumps to his credit, and Jim Slocum under contract for the Bureau of Land Managethe co-pilot, with more than 150 jumps, flew the

Tanker Fleet No	Registry	Military Serial	Jet Pods	Remarks
	N15501	22130		
	N15502	22114		
	N15505	22101		
	N15506	22105		
	N15508	22134		
	N3003	22106		
137	N3559	22118	Single Steward Davis	To Dover AFB Museum, Jet pod removed
140	N3560	22132		Crashed 10 Jun 1978
133	N383S	22133		
29	N3935	22113	Single Steward Davis	
	N37636	53-8150		
135	N48076	52-5846		Crashed 16 Sep 1987
	N5215R	22108		
136	NS216R	22131	Single Steward Davis	
	N5217R	22116		
140	N807Z			
	N8091	22122		
138	N8092	22103	Single Steward Davis	Crashed near Bettles Field, AK 1981
140	N8093	22111	Single Steward Davis	
136	N8094	22135		
28/138	N9682	22115	Single Steward Davis	Crashed 127 Jun 1981
134	N8832	22123		
	N961S	22120		
	N966\$	22107		



nion C-110e

Tanker Fleet No	Registry	Military Serial	Jet Pods	Remarks
	N13742		Single Steward Davis	Cargo operations only Sold to Hemet Valley Flying Service
12	N13743	49-0132	Single Steward Davis	Sold to Hernet Valley Flying Service
13	N13744	49-0199		Sold to Hernet Valley Flying Service
14	N13745	49-0122	Single Steward Davis	Cargo operations only Sold to Hemet Valley Flying Service
	N13746	49-0152		
	N8682	22115	Single Steward Davis	Retained RCAF markings Sold to Hawkins & Powers
	N383S	22133	2 Under-Wing Steward Davis	Sold to Hernet Valley Flying Service

Top: After service with Mexicana, this C-82, CP-693, went to Bolivia. It too had the dorsal fillet additions. D D Olson via P M Bowers

Below: This ex-RCAF bird, 22114, became N15502. The first five characters of the registry were stencil-applied, while the last digit was hand-written. The photograph was taken in August 1975. This aircraft was eventually moved to the museum at McClellan AFB, CA. Douglas E Slowlek via

aircraft. Eour emoka jumpare sarvad se kirka in the main cahin. They were Chris Fairine from Fairbanks AK: Jack Firestone fro McCall. ID: and Jim Olson and Tony Past from Fairbanks. Dugan contacted Bettles Fie and declared an emergency. Although he ha both feet on the left rudder pedal, the aircra continued to vaw to the right. Dugan orders the others to bail out and he remained with th ship. The co-pilot and kickers had new quid opening parachutes that had been issued th year for the first time. The second fuel bladds was lettisoned and the crew bailed out. Duga cleared a ridge and saw the south fork of the Knyukuk River and a sandhar. He had no flat or landing gear. C-119s were not good in bell landings. Dugan kept the nose slightly hig and brought the aircraft down onto the sand bar. A helicopter in the area rescued the co nilot and kickers, then went after Dugan. The crew was taken to Fairbanks. Three days late Dugan and Slocum had a new Hawkins & Pow ers C-119 waiting for them.

Aero Union

Aero Union, of Chico, CA, was founded by Dale Newton in July 1961. The company specalize in aerial firefighting and providing modifications for firefighting aircraft. Aero Union modfied C-119s for firefighting operations through FAA Type Certificate A21WE.

The C-119s were known to have been in Aero Union's inventory are detailed in the table to the left.

Hemet Valley Flying Service Hemet Valley Flying Service had as many as 20

aircraft employed in the fire fighting mission a least four of which were C-119s. The Fiving





Bozan we equipped with the Steward Daison July Plate Place The energy 2,400 jatos of water or the reterical versus the plate plate of the reterior of the plate of the disclarate. Hereit Valley C - 115th and a mainary plate plate of the plate of the separate of the plate of the plate of the separate for the plate of the plate of the separate for the plate of the separate for the plate of the plate of the plate of the separate for the plate of the least disclarate of the least disclarate of the plate of the plate of least disclarate of the least disclarate of lea

poemment for several years.

The C-119s listed in the table below were move to have been in Hernet Valley Flying Seriets's inventory. The aerial tanker fleet numbers were carried on the vertical fin.

MINTUCKET LUMBER COMPANY

The Namucket Lumber Company operated NO.2 registry N175ML (ex-USMC BuNo 11677), to haul lumber to Block Island, Rl. in sport of the relocation of the Southeast Lighttouse. The aircraft had originally served in AB-252 based at MCAS Cherry Point, North Drolina and was deployed to Port Lyautey. Notice, to support Marine ground forces durin the Lebanon crisis in 1958. Subsequently it and with USMC Reserve units in Miami. lettle, and Minneapolis, with VMR-352 IR216 and VMR-234, respectively. The airrat sat derelict in one of the boneyards at Tucon International Airport after serving with the artucket Lumber Company, Currently the airmit is being cared for by the Mid Atlantic Air

Museum in Reading, PA and may well be the last Flying Boxcar in flying condition.

CIVILIAN ACCIDENTS

While there are numerous examples of accidents with C-82s and C-119s in civilian operation, only a few will be described. Alaska is known for short fields, high density abtude airfields, snow and ice conditions, rugged terain, adverse winds, and tight operation conditions. Each of these factors makes those in Alaska challenging.

and sign operation consistent. Each of mean and sign operation of the control of Carrying US Forestry Service fleet number 81, N13743 was ex-USAF C-119C-13-FA, s/n 49-0132. The aircraft was operated by Hemet Valley Flying Service and carried these distinctive red and black markings, G S Williams

when the aircraft turned away, the fighters returned and shot it down near Alexandria On 7 July 1983, Northern Air Cargo C-82A. registry N9701F, experienced an incident at Anchorage, AK. The main near collapsed after landing. While the nose gear was down and locked with a green gear indicator light in the cockpit, there was no down and locked gear indicator light for the main gear. Examination revealed signatures that are consistent with extreme overload resulting from an event such as attemption to extend the near with the aircraft on the ground. The crew claimed to have searched for a checklist in the cockpit. The probable cause was listed as the pilot in command not following the checklist. There was a crew of two aboard the aircraft. Both escaped

without injuries. This aircraft, that had previ-

ously served with TWA as Ontos, was repaired

and returned to service.

to land at Cairo. The Egyptians claimed that, On 26 June 1984, a Northern Air Cargo

nemet valley C-	ternet valley C-1138						
Tanker Fleet No	Registry	Military Serial	Jet Pods	Remarks			
	N13742		Single Steward Davis	Obtained from Aero Union			
81	N13743	49-0132	Single Steward Davis	Obtained from Aero Union			
	N13744	49-0199		Obtained from Aero Union			
82	N13745	49-0122	Single Steward Davis	Obtained from Aero Union			
	N13746	49-0152					
	N383S	22133	2 Under-Wing Steward Davis	Obtained from Aero Union			





C-82A, N4753C, was on approach to their destination in Alaska when the crew was unable to extend the landing gear using either the normal or emergency extension systems. The crew opted to return to Anchorage where emergency equipment was available. Fuel was reduced on the return leg. A wheels-up landing was made on a foamed runway. Both crew members escaped injuries in the accident. A subsequent examination revealed that the right gimbal ring/travel nut had traveled beyond its on the electric gear actuator

On 24 April 1984, the crew of Hawkins & Powers C-119, registry N15509, was attempting a take-off on an airstrip at Venetie. AK. Brakconsidered good during the normal summer season. The runway was covered with snow during most of the year, as on the day of the accident. Grading and construction permitted take-offs to the south only: resulting in many take-offs being made with a tailwind. On the day of the accident, there was a 5-knot wind from the north, austing to 10 knots. The pilot in command stated that nosewheel steering was not effective and the rudder did not respond due to the tailwind. Most pilots used a 25° right. turn dogled of the runway at the north end to start their take-off, especially when a tailwind found. This resulted in a loose alleron. The

to the left and collided with a snowbank, where it posed over. All four crewmen escaped without injuries. The probable causes were identifierd as improper planning and decision on the part of the pilot-in-command, and selection of unsuitable terrain for taxi and take-off. The

. Over-confidence in the aircraft's ability by the pilot-in-command

- Self-induced pressure by the pilot-in-command - Weather conditions - high density altitude . Weather condition - tailwind - Airport facilities - inadequate, snow covered, icv.

rough and uneven Terrain condition - snowbank

Known Civilian C-119 Losses The known civilian C-119 losses are shown in the table at the foot of this page

Airworthiness Directive A C-119 from the Hemet Valley Flying Service crashed north of Los Angeles in the Frazier Park area while enroute to a firedrop. The entire crew was lost During the ensuing National Transportation Safety Board investigation, evidence of a failure in an aileron bellcrank due to a casting flaw induced during manufacture was

aileron departed the aircraft along with the out board wing panel. All of the reinforcing tape strips over the aileron ribs were found missing

As a result the FAA issued an Airworthiness Directive (AD) calling for an inspection to prevent possible wing failure due to loads induced by a free aileron. AD 81-18-06 became effective on 10 September 1981, and was applicable to Model C-119 series airplanes certificated in al categories under various type certificates including, but not limited to. Pacific International Foods (TC A6NW) William Warra (TC A32CE) Starbird (TC A5NW) Aero Union (TC A21WF), and Hawkins & Powers (TC A24WE).

The AD called for inspections of the inboard and outboard aileron, aileron control system. and all alleron attach fittings of the outboard wing panel using close visual (10x magnification), dve penetrant and X-ray procedures. The components were to be inspected for evidence of cracks corrosion nitting; loose distorted at corroded fasteners: excessive wear and elongated holes. These inspections were to be conducted within 100 hours time in service or within 60 days of the effective date of the AD. parts replaced prior to further flight. Recent inspections were to be conducted at intervals not to exceed 3,000 hours time in service grate year from the last inspection whichever occurred earlier.

EPILOGUE

After ably serving the United States military to more than two decades, the C-82s and C-119 not only soldiered on in Allied air forces but servert in a variety of challenging roles in the civilian world. For the civilians, the price of the airplanes was right, they had a proven tack record, and had the capacity and performance to serve in a niche market. Today some of these airnlanes may be seen in museums or on the

Date	Operator	Registry	Location	Remarks
Date	Operator	rngracy	DOCUMENT.	110.00.00
10 Jun 1978	Hawkins & Powers	N3560	Greybull, WY	While on a test hop out of Greybull, WY, the No 2 engine propeller ran away shortly after take-off. The aircraft made a belly landing 5 miles NE of the airport, 3 on board/3 fatalities.
5 Jul 1980	J D Gifford & Associates	N90268	King Salmon, AK	While on approach into King Salmon Airport, AK, during a freight flight, the crew received a No1 e warning. The left wingsip exploded, 2 on board/0 fatalities.
27 Jun 1981	Hawkins & Powers	N8682	Nr. Bettles, AK	White climbing out from a cargo airdrop at a forest fire, the No 2 engine suffered a massive intent resulting in a fire and explosion. The cargo was jettisoned and the 4 kickers and co-plict balled ou The pilot made an emergency landing on a sand bar. 6 onboard 0 fatalities.
8 May 1983	Supra International	N13626	River Kagiak, AK	While taxying, the aircraft sank through the ice.
21 Apr 1984	Hawkins & Powers	N15509	Venetie Airport, AK	The aircraft departed Venetie Airport for Fairbanks International Airport while on a freight mission.

The aircraft departed Venetie Airport for Fairbanks International Airport while on a freight mission. The aircraft departed a snow-covered runway. Crew of 2 and 2 passengers/0 fatalities 5 on board 0 fatalities

Castle Craos State Park, CA 3 on board/3 fatalities

13 May 1987 J D Gifford & Associates N8504X

C-82 Packet & C-119 Flying Boxcar **Summary Unit Histories & Markings**

After World War Two the C-82 Packets follound by the C.119 Flying Boycars, quickly became the mainstay of the USAF troop carrier units. With wholesale replacement in the Reqular Air Force inventory of these aircraft with the Inniheed C-130 Herryles, the C-119s then became the main airlift aircraft for the USAF Baserye. In addition, some C-82s and over 300 C-119s found their way into the air forces of at least nine foreign nations through the Mutual Defense Assistance Program (MDAP)

Col Lorrie W Moomaw 25 May 1953 13 Jun 1956 Col Howard J Withycombe 1.0111954 Col Randoloh E Churchill c5 Jul 1955

322nd Air Division in September 1958. The wing was reactivated as the 60th Military Airlift Wing on 17 December 1965, and organized on 8 January 1966 Redesignated the 60th Air Mobility Wing, the unit currently operates Lockheed C-5 Galaxies and McDonnell

Commanders of the 60th TCW during the C-82 and C-119 eras were: Col Aubry C Strickland

Col Lawrence B Kelly

Col Randolph E Churchill

Col Harry S Bishop

Unknown

2 Jun 1951 1 Nov 1952 1 Aug 1955 c22 May 1956 Douglas/Bosing KC-10 Extenders from Travia AFR California

United States Air Force

REGULAR AIR FORCE

60th Troop Carrier Wing, Medium Buring World War Two, the 60th Troop Carrier Mnn. Medium (TCG) flew C-47s in support of weith Air Force operations in the Meditertanean Theater. The group moved to Waller Field. Trinidad on 4 June 1945, and operated as part of the Air Transport Command until 31 My 1945, when they were inactivated. The 80h TCG (Medium) was reactivated at Munich AB, West Germany on 30 September 1946, and assigned to United States Air Forces Furnne USAFE). On 14 May 1948, the group moved to Kurbeuren AB. West Germany, Initially operating with C-47s, the unit was augmented with C54s during the latter part of 1948. The 60th TOG moved to Wiesbaden AB, West Germany, on 15 December 1948, were redesignated the 50h TCG (Heavy), and began to re-equip with G54s While there they had no specific misfor they did provide airlift support to USAFF. indefer units in the theater. They participated a Operation Vittles, the Berlin Airlift, between June 1948 and September 1949. On 26 Seporber 1949, the unit moved to Rhein-Main AR list Germany, where they replaced the 61st 109. The unit was redesignated the 60th TCG Medium) in November 1949, and resumed the actical airlift role

Commanders of the 60th TCG during the A2 and C-119 eras were:

Col Jay D Boque 5 Dec 1960

14 Jun 1952

C-82s came into the inventory in 1951, and the 60th TCG began to transition into C-119s during 1953. Between August 1951 and July 1952. the 60th TCG provided training for the recently reactivated 433rd TCW from the USAE Reserve Retween July 1952 and March 1953 the 60th TCW provided training for the 317th TCW. On 22 September 1955, the 60th TCW moved to Dreux AB, France, where they continued operations with the C-119s until their inactivation on 25 September 1958. The 60th TCW operated C-119s out of both Rhein-Main AB, West Germany, and Dreux AB. France, with the following squadrons (colors were applied to the nose and fin tips): 10th TCS/Red. 11th TCS/Green, and 12th TCS/Blue

With the inactivation of the 60th TCW, the component squadrons were assigned to the 61st Troop Carrier Wing, Medium The 61st TCW (Medium), based at Rhein-Main

AR West Germany was environed with C-47e and C-54s. Its component squadrons were the 14th, 15th, and 53rd TCSs. The 61st TCW was to re-equip with C-119s and on paper such action took place in August 1950. However, the outbreak of the Korean War dictated that the wing's primary operating unit, the 61st TCG, he redeployed to McChord AFB. Washington in July. By December, the wing and its component squadrons were all relocated to Ashiya AB. Japan. The C-119 transition never took place.

62nd Troop Carrier Wing, Medium The 62nd TCG flew C-47 and C-53 Skytrains

during World War Two. Initially based at Keevil. England, where they received additional training, the unit was assigned to the Twelfth Air Force and moved to North Africa in time to narticipate in the Battle for Tunisia. Between April and June 1944, the 4th TCS operated out of

he 129th SOG insignia was applied to many of hunt's C-119s, In addition, the Air Force littlanding Unit Award (AFOUA) was added time the Insignia, Bergagnini via D Reminotoni

Fairchild Coll & 2018-) 163

bases in India in support of the assault on Myltkvina. Burma. After the secession of hostilities in the European Theater, elements of the 62nd TCG assisted in the redenloyment of personnel until 14 November 1945, when the unit returned to the ZI. The group was inactivated in Naples, Italy on 14 November 1945, It was reactivated at Bergstrom Field, Texas, between 7 Sentember 1946 and August 1947 when it was reassigned to McChord Field. WA and transi-

tioned into C-82 Packets Commanders of the 62nd TCG during the

Col Donald J French

7 Sep 1946 1 Mar 1948

Col Adriel N Williams Colonel Julius A Kolb commanded the 62nd

The component squadrons and colors (applied to the nose) were: 4th TCS/Red, 7th TCS/Vellow and 8th TCS/Rlue

McChord AFB. Washington where it has transitioned out of the Lockheed C-141 Starlifter into the McDonnell Douglas/Bosing C-17 Globamaster III

64th Troop Carrier Wing, Medium The 64th TCG flew C-47s during World War

Two in support of Twelfth Air Force operations. in the Mediterranean Theater, During June 1944, the bulk of the group was on temporary duty in the China-Burma-India Theater. The group was assigned to Air Transport Command and relocated to Waller Field. Trinidad on 4 June 1945, where it remained until their inactivation on 31 July 1945. Though activated in the ZI at Langley AB, Virginia, on 10 May 1947. the unit remained unmanned until its inactiva-

The 64th TCG was reactivated at Donaldson AFB. South Carolina, assigned to Tactical Air Command, and began training in C-82s on 14 July 1952. By July 1953, the 64th TCG began transition into C-119s. The group was inactivated on 21 July 1954, Colonel Kenneth L. era. Wing commanders for the 64th TCW were: cMar 1953

Brig Gen Edgar W Hampton Feb 1955

The 64th TCG operated C-119s with the following squadrons: 17th TCS, 18th TCS, and 35th The wing was discontinued and inactivated

on 1 January 1963. It was redesignated the 64th TCW on 1 July 1966, and organized on 1 July 1966. The unit was redesignated the 64th Tactical Airlift Wing on 1 May 1967, and inactivated on 31 May 1971. Redesignated the 64th Flying Training Wing on 14 April 1972, the unit was reactivated on 1 October 1972.

313th Troop Carrier Wing, Medium After service during World War Two with the

Twelfth Air Force, operating C-47 and C-54 aircraft, the unit returned to the ZI and was inacti-

unted at Dear Eigld Indiana Dearthrated at Tulin AB. Austria on 30 Sentember 1946 the 313th TCG (Heavy) was assigned to USAFE and resumed operations with C-47 and C-54 It returned to the 71 on 95 June 1947 was

assigned to TAC and resumed training in oliders and C-82s. It moved to Germany on 9 November 1948 and participated in the Berlin Airlift. In February 1949 it was redesignated the 313th TCG (Special). The unit was inactivated at Fassberg, West Germany, on 18 September

1949. Again redesignated, the unit became the 313th TCG (Medium) and was activated at Mitchel AFR New York on 1 February 1953. assigned to TAC, and equipped with C-119s. On 2 October 1953 the group moved to Sewart

AFB. Tennessee, where they served until their inactivation on 8 June 1955. Commanders of the 313th TCG during this

era were: 30 Sen 1946 It Col Walter W Washburn Jr. 15 Aug 1947 Col Frank P Bostrom 3 Dec 1947 Lt Col Conway S Hall unk to Sep 1949 Col Benton R Baldwin 1 Oct 1953-55

Commanders of the 313th TCW during this era were

Col Thomas K Hampton 18 Aug 1948 Col William A Ross c15 Aug 1949 to Col Donald J French 14 Jul 1952 Col Harry M Pike 29 Jul 1954 Col Joseph A Cunningham

Markings for the C-119s assigned to the 313th TCG consisted of a solid colored nose with a scalloped edge along the aircraft centerline beneath the cockpit. The squadrons and their colors were: 29th TCS/Red, 47th TCS/Green, and 48th TCS/Blue

The 313th TCW was inactivated on 25 August 1953. Reactivated on 15 June 1964, the 313th TCW operated Lockheed C-130s from Forther AFR, Kansas until its inactivation on 30 September 1973.

314th Troop Carrier Wing, Medium After World War Two, the 314th TCG flew C-47s out of Bolling Field, District of Columbia, until

late September 1946, when they moved to Albrook Field, Canal Zone, on 1 October 1946. Between 10 March and early October 1948, the group operated out of Curundu Heights, Canal When the 314th TCG returned to the Zl. it.

was assigned to Tactical Air Command, redesignated the 314th TCG (M), and based at Smyrna (later Sewart) AFB, Tennessee, on 21 October 1948. The unit was equipped with C-82s. The 20th TCS saw detached service at Rhein/Main AB, West Germany and Bergstrom AFB, Texas.

Commanders of the 314th TCG during this

Col Richard W Henderson Col William H DeLacey 27 Aug 1951

Colonel Hoyt I. Prindle commanded of the

314th TCW during this era. Component squadrons of the 314th TCG and their colours were: 20th TCS/Yellow, 50th

TCS/Red. 61st TCS/Green, 62nd TCS/Blue The 314th TCG began operation with C-110s at Sawart AEB Tannassee in 1949 with the 50th TCS 61st TCS and 62nd TCS The 314th TCG relocated to Ashiva AB Japan in September 1950, where they remained until 15 November 1954. The group was assigned to the Ear East Air Forces, 315th Air Division (Combat Carno) In addition to the 314th TCG's three assigned squadrons, it was aupmented by the 37th TCG (from the 316th TCG) which was attached between 21 August 1950 and 8 May 1952. During the Korean War, the 314th transported troops and supplies from Japan to Korea, and evacuated wounded per sonnel. The group participated in two major airborne operations: the paratroop and equipment drop over Sunchon in October 1950 in support of the UN assault on Pyongyang and the paradrop over Munsan-ni during the airborne attack across the 38th Parallel in March 1951. After the armistice, the 314th TOS remained in Japan to transport supplies to Korea and to evacuate prisoners of war. For action between 28 November and 10 December 1950, the group was awarded the Distriquished Unit Citation. The Republic of Kore

mer-Fall Offensive, Second Korean Writer, Korea Summer-Fall 1952. Third Korean Writer Commanders of the 314th TCG during this en

Presidential Unit Citation was awarded for ser-

vice between 1 July 1951 and 27 July 1953.

The 314th TCG was also awarded campaint

ribbons for the following: UN Defensive UN Offensive, CCF Intervention, 1st UN Coun-

teroffensive, CCF Spring Offensive, UN Sun-

and Korea Summer-Fall 1953.

Col William H DeLacev 27 Aug 1948 Col David E Daniel 28 Sep 1951 Lt Col Harold V Sommers 1 May 1952 Col William H DeLacey Nov 1954

Commanders of the 314th TCW during this ea were: Col Hoyt L Prindle 1 Nov 1948

31 Aug 1960 28 Dec 1950 Col Norton H Van Sicklen 1 Jun 1952 Col William H Del anev 2.14 1952 23 Aug 1952 6 Jul 1954 Col Marvin L McNickle Col William Lewis Jr. 1 Jul 1958

On 15 November 1954, the 314th TCG returns to Sewart AFB, Tennessee, where it continue troop carrier operations with the C-119 until 1957. The component squadrons of the 314th TCG were: 50th TCS, 61st TCS, 62nd TCS, and 321st TCS. Retween 11 January and 14 February 1965, the group participated in TACAIR exercise 55-3 and Exercise Snowbird. designed to test their combat canability under extremely cold weather conditions. As a result of these operations the 314th TCG received the Air Force Outstanding Unit award

In Ortober 1955, the 62nd TCS under the command of Lieutenant Colonel W.H.Kellerher departed with 12 aircraft for Dreux AB. France. to perform airlifts as part of NATO's Air Logistic Force operators by the 322nd Air Division USAFF. The unit remained TDY for a period of six months.

During the winter of 1955, the 314th TCG participated in a large USAF/US Army maneuver called Operation Sageboush in Louisiana to England AFB. Louisiana, between 5 November and 8 December to furnish the bulk of the airiff. The remaining squartrons fulfilled airtome commitments assigned to the 314th TCG from higher headquarters

The markings for the C-119s operated by the 314th TCG changed over time. Initially they carried a pair of insignia blue diagonal strines on the vertical tails, reminiscent of their C-82 Packets. Then their markings were as follows: Markim Rhip nose with a series of six narallel trines in graduated lengths - small at the botton and long at the top. A series of four similar parallel stripes extended aft from the cockpit windows. The upper third of the vertical fins were Insignia Riue with a series of six parallel stices extending over the rudders. The squadto colors were applied to the cowl rings as folbws: 50th TCS/Red. 61st TCS/Green, 62nd TCS/ But, 37th TCS/Yellow (Attached 21 August 1950 to 8 May 1952). The markings were subsequently changed

to delete the parallel stripes. The entire upper hid of the vertical tail surfaces were painted in the squadron color. The center of the nose on some aircraft carried the earlier group insignia spicing a pair of cowboy boots. A guartered tose with scalloped trailing edges was employed. The colors of the nose markings were white and the squadron colors and names vers as follows: 50th TCS/Red/Red Barons. BitTCS/Green/Green Homets, 62nd TCS/Blue/ Rue Ramons

Some aircraft, in particular from the 61st ICS, carried the squadron name on the dorsal hi

Still later, the nose markings were modified tirdude a lightning bolt extending aft from the therscallop in the squadron color

The 314th TCW transitioned into Lockheed \$130s. It was redesignated the 314th Tactical WitWing on 1 August 1967. During the war in Suffeast Asia, the wing operated from bases Nawn. The 314th TAW returned to the DNS and has been stationed at Little Rock Fil Tennessee since 31 May 1971.

316th Troop Carrier Wing, Medium

During World War Two, the 316th TCG was assigned to the Twelfth Air Force and operated C-47 and C-53 aircraft primarily in the Mediterranean. They were reassigned to the Ninth Air Force and moved to England to participate in

By 25 May 1945, the 316th TCG had returned Pope Field. North Carolina, where they operated C-82s, On 25 August 1947, the group moved to Greenville AAR South Carolina Commanders of the 316th TCG during this era

were: Col Hansay & Berner 12 May 1944 to Lt Col Walter R Washburn 2-Sep 1945 to 17 Sep 1945 Lt Col Leonard C Fletcher 17 Sep 1945 Col. Jerome R McCauley Col Clarence J Gallinan Lt Col Leroy M Stanton 31 Sep 1946 Col Clarence J Galligan 1 Nov 1946 c4cr 1947 Col Norton H Van Sicklen 1 Aug 1950 Mai Dwinte E Maul 31 Aug 1950 Maj Gordon F Blood 6 Sep 1950 Col Norton H Van Sicklen 28 Dec 1950 Col William H DeLacev 1 Jun 1952 Col Richard P Carr cNov 1954

Commanders of the 316th TCW during this erawere Col Paul H Prentiss 15 Aug 1947

19 Mar 1955

Col William C Lindley

Col Newton I ppofellow 11 Dec 1948 Cal Lewis M Merrick On 4 November 1949, the group moved to

Smyrna AFB (later Sewart AFB), Tennessee where they trained in C-119s. The 16th TCS (Assault, Light) operated C-119s with the group between 5 October 1950 and some time in 1951, and then, transitioned into YC-122s until their transfer to the 463rd TCW at Arrimore AFB. Oklahoma, on 14 November 1954. The 75th TCS was reactivated on 20 December 1952, and assigned to the 316th TCG. On 15 November 1954, the 316th TCG (Medium) transferred without personnel and equipment to Ashiva AB. Japan, and assignment to FEAF While assigned to the 316th TCG, the 37th TCS had been attached to the 314th TCG at Ashiya. AB, Japan, between 21 August 1950 and 8 May 1952. The 316th TCG remained at Ashiva until some time in 1957. The squadrons involved in this transfer were: 36th TCS, 37th TCS, and 75th TCS

Markings for the 316th TCG consisted of a horizontally and vertically quartered nose in white and in the squadron color. The color was applied in the upper left and lower right guadrant as were the darkened portion of the wings that were adjacent to the circle. It appears as if the 316th TCG acquired their aircraft from the 314th TCG when it made a paper move back to

Sewart AFB. Tennessee, and the wings were added to differentiate the two units. The squadron colors were: 36th TCS Red Moite, 37th TCS

Blue/White 75th TCS Green/White These markings were changed some time in 1956 when the clocking of the quartered nose was rotated to have the squadron color in the unper and lower quadrants, divided by white in

the left and right quadrants The 316th TCW was inactivated at Greenville AFR. South Carolina on 20 October 1949. The unit was redesignated the 316th Troop Carrier Winn Assault and activated at Lancley AFR Virginia on 15 November 1965. The unit was redesignated the 316th TCW on 1 March 1966. and the 316th Tactical Airlift Wing on 1 May 1967. The wind, by then operating C-130Fe. was inactivated on 1 October 1975.

317th Troop Carrier Wing, Medium Assigned to the Fifth Air Force in the Southwest

Pacific the 317th TCG operated a variety of aircraft during World War Two. After the war the group remained at Tachikawa AB. Japan. where it operated C-54e. The 317th TCG (Heavy) relocated via the 71 to Wiesharlen AR West Germany, around 20 September 1948 where it became part of USAFE and participated in the Berlin Airlift. The group was inactivated at RAF Celle West Germany on 14 September 1949. Reactivated at Rhein-Main AB. West Ger-

many, on 14 July 1952, the 317th TCG (Medium) was equipped with C-119s and assigned to USAFF, gaining the assets of the 433rd TCW. The 317th TCW relocated to Neubiberg AB. West Germany, on 21 March 1953 and then moved on to Evreux-Fauville AB France, 17 April 1957, where it replaced the 465th TCW. The 317th TCG provided troop carrier support and airlift service in support of USAFE, NATO, and UN operations. They particinated in numerous eversises and humani-

Commanders of the 317th TCG during this era were:

14 Jul 1952 Lt Col James E Bauley 1 Mar 1954 Col Harry M Pike

Commanders of the 317th TCW during this era were:

Col Thomas K Hampton Col William A Ross c15 Aug 1949 to c14 Sep 1949 14 Jul 1952

23 Jul 1954 Col Clarence B Hammerle Jr. 29 Jul 1954 Col Joseph A Cunningham 9 Sep 1954 Initially, the 317th retained the markings carried on the C-119s assigned to the 433rd TCG. Subsequently, the squadrons comprising the 317th

TCG were identified by the following colors

applied to the cowl rings: 39th TCS/Green. 40th TCS/Red, 41st TCS/Blue nned by 628 C-119 alfetta (2007)

The 317th TCW (M) was inactivated on 25 Sentember 1958, activated on 13 March 1963. and organized on 15 April 1963. The wind moved to Lockbourne AFB. Ohio on 20 June 1964 where it operated C-123s, C-124s and C-130s. The unit was redesignated the 317th. Tactical Airlift Wing (TAW) on 1 May 1967. The 217th TAW mound to Rone AEB North Carolina

443rd Troop Carrier Wing, Medium

The 443rd TCG was activated at Sedalia AAF. Missouri on 1 October 1943 and was equipped with L-3 C-47 and C-53 aircraft. The unit service in the China-India-Burma Theater during World War Two, returned to the ZI, and was inactivated on 26 December 1945 Allocated to the Reserve and activated on 27

June 1949 at Henley Field Texas, the 443rd TCG was equipped with C-46s and assigned to Tactical Air Command. The unit relocated to Donaldson AFB, South Carolina, on 9 August 1951, ordered to active service on 1 May of the same year and was redesignated as a wing.

The 443rd TCW transitioned into C-119s in February 1952, and participated in tactical evercises and operations while assigned to the Eighteenth Air Force from 1 June 1951. The 443rd worked closely with other troop carrier wings in the testing and evaluation of new troop carrier doctrine and procedures. The wing operated C-119s until 8 January 1953, when it

Commanders of the 443rd TCG during this

15 Oct 1950 24 Mar to 14 Jul 1952

Colonel William F Shuttles commanded the Component squadrons of the 443rd TCG were: 309th TCS, 310th TCS, 343rd TCS.

Redesignated the 443rd Military Airlift Wing. Training, and activated on 27 December 1965 The wing was organized at Tinker AFB, Oklahoma on 8 January 1966. During this period it operated both the C-124 and Lockheed C-141 Starlifter. On 5 May 1969, the wing moved to Altus AFB. Oklahoma and added the Lockheed

C-5 Galaxy to their C-141 inventory. 463rd Troop Carrier Wing, Medium The 463rd was a B-17 heavy bombardment group assigned to the 15th Air Force during World War Two, and served in the Mediter-

ranean Theater of Operations. Olympic diving gold medalist Colonel Frank A Kurtz took the unit overseas, leading them in his B-17 named from the Pacific Theater. The 463rd BG was inactivated in Italy on 25 September 1945 Redesignated as the 463rd TCG (M), the unit was activated at Memphis Municipal Airport,

Tennessee on 16 January 1953. The unit was equipped with both C-46s and C-119s and assigned to the Eighteenth Air Force. The Commanders of the 464th TCG during this era 463rd TCW moved to Ardmore AFB, Oklahome on 1 Sentember 1953 where it continued to operate C-119s until 1967, when it transitioned into C-130s. Along with the C-119s, the wing also operated YC-122s, C-122s, and C-123s. The 463rd TCW airlifted, airdrooped, airlanded troops and cargo in sup-

port of a variety of tactical operations and special missions as part of US Army and joint airborne exercises at worldwide locations. Commanders of the 463rd TCG during this era worp

Col John R Roche 16 Jan 1953 Col Mondrow T Marrill 10 Aug 1953 Col Benjamin M Tarver Jr. 12 Aug 1954

Commanders of the 463rd TCW during this era

20 Aug 1954 Col. James I. Daniel Jr. 4 Jun 1957 The wartime bombardment squadrons were

redesignated as troop carrier squadrops when they continued on with the 463rd TCW. These component squadrons were: 772nd TCS/Red. 773rd TCS/Yellow, 774th TCS/Green, 775th TCS/Blue The 463rd TCW operated a variety of twin-

and four-engined transports after relinquishing the C-119s. Most notable of the aircraft was the C-130 that entered the inventory in 1956 and remains the primary aircraft of the wing. The unit was redesignated the 463rd Tactical Airlift. Wing (TAW) on 1 August 1967. During the war in Southeast Asia the wing operated from bases in the Philippines and was inactivated there on 31 December 1971. The 463rd TAW was reactivated at Dyess AFB. Texas on 1 June 1972 moving to Little Rock, Arkansas where it continues to operate C-130s.

464th Troop Carrier Wing, Medium The 464th was a heavy bombardment group

equipped with B-24s and assigned to the Fifteenth Air Force in the Mediterranean Theater of Operations during World War Two. The unit was assigned to Air Transport Command and relocated to Waller Field, Trinidad in June 1945. The 464th RG was inactivated there on 31 July 1945.

The 464th TCW (M) was established on 15 December 1952, and activated at Lawson AFB. Georgia, on 1 February 1953. This unit transitioned from Curtiss C-46 Commandos to C-119s during 1953 and 1954. On 21 September 1954, the wing relocated to Pope AFB. South Carolina, Sikorsky H-19 Chickasaw helicopters and Fairchild C-123 Providers came into the wing's inventory in 1955. They provided tactical airlift of troops and cargo, took part in joint airborne training with Army forces. and participated in tactical exercises within the ZI and overseas. The 464th TCW was assigned to the Fighteenth Air Force, TAC, from its activation until 1 September 1957, when it came

under the control of the Ninth Air Force.

c1 Feb 1954 Col Charles F Franklin Col Adam A Reaves

Commanders of the 464 TCW during this era

1 Feb 1953 Col Charles D Birdsall 20 Apr 1953 Col Troy W Crawford 18 May 1953 Brin Gen Theodore G Kershaw 15 Aug 1955

Markings for the C-119s operated by the 464th TCW included a colored nose that scaloned back into a lightning bolt in the squadron color. The wing insignia was applied to both sides of the nose forward of the drop windows. The squadron colors were: 776th TCS/Red, 777th

TCS/Blue, 778th TCS/Green, 779th TCS/Yellow The 464th TCW operated Sikorsky H-19 Chickasaws and C-123s from 1955. The unit was redesignated the 464th Troop Carrier Wing Assault on 1 December 1958 The wing gained C-130s in 1963. Redesignated the 464th Tactical Airlift Wing on 1 May 1967, the wing continued operations until its inactivation on 31 August 1971.

465th Troop Carrier Wing, Medium The 465th was a heavy bombardment group

equipped with R.24s and assigned to the 19th Air Force in the Mediterranean Theater of Ocea ations during World War Two. The group was transferred to Air Transport Command and relocated to Waller Field Trinidad in June 1945 and inactivated there on 31 July of the same vear The 465th TCW was established on 21

August 1953, and activated at Mitchel Field New York, on 25 August 1953. Assigned to the Fighteenth Air Force, the wing was equipped with C-119s, and replaced the 313th TCW hat was on the base. Between August and 30 November 1953, the 465th TCW operated under the control of other wings until it commenced its overseas movement. No tacket operations were performed between 1 October 1953 and early April 1954. The wing relocated to Toul-Rosières AB. France, on 2 April 1954 where it operated under the control of the 322nd Air Division. The wing then moved to Evreux (later Evreux-Fauville) AB, France, or 23 May 1955, where they remained until 8 Mile 1957. The 465th TCW participated in many atlift and troop carrier exercises, tests, and comations in the European area in support of NATO and USAFE commitments. The 465th TCWws inactivated on 8 July 1957, and their assist were gained by the 317th TCW.

Commanders of the 465th TCG during this as Mai Clifford F Harris

Feb 1953 Col Earl W Worley cMar 1953 Lt Col James D Barlow 10 May 1954 Col James A Evans Jr 19 Sep 1954 Col James D Barlow 7 Apr 1955

Commanders of the 465 TCW during this era

25 Aug 1953
Brig Gen Franklin Rose 25 Aug 1953
Col Earl W Worley 12 May 1954
Col James A Evans Jr 31 Jul 1996
Col Robert D Forman 13 Aug 1956 to 18 Aug 1958 to 18 Aug

The wartime bombardment squadrons were redesignated troop carrier squadrons and became part of the 465th TCW. The component squadrons and their colors were as follows: 70th TCS/Red. 781st TCS/Blue. 782dh TCS/

Green.
The unit was redesignated the 465th Born-bardment Wing, Heavy on 15 November 1962, organized at Robins AFB, Georgia on 1 Febnusy 1963, and assigned to SAC. The wing operated 8-52s and KC-135s until its discontinuence and inactivation on 2-5, bits 1968.

483rd Troop Carrier Wing, Medium The 483rd was a heavy bombardme

equipped with B-17s and assigned to the Fifteeth Air Force in the MTO during World War Tuo. The unit-was inactivated in fally on 25 September 1945. Redesignated the 483rd TGG MJ, the unit was reactivated at Ashiya AB, Japan on 1 January 1953. White assigned to TAC, the unit was attached to FEAF for duty in the Korean War. Commanders of the 483rd

US were:

Lt Col Emest W Burton 1 Jan 1953
Col George M Foster 1 Mar 1963
Lt Col Kenneth C Jacobs c Jul 1955
Col Horace W Patch CAug 1965

he 483rd TCW was established on 15 November 1982, and activated at Ashiya AB, Japan on 1 January 1983. While assigned to TAC, the unit was attached to FEAF for duty in the Korean War, replacing the 403rd TCW that was named to Reserve status. The 483rd TCW controlled both the 483rd TCG and the 314th TCB and the A81rd TCS.

Cemanders of the 483rd TCW during the 119 era were: L Col Maurice F Casey 1 Jan 1953 Col Jamie Gough 13 May 1964 Col William C Lindley 6 Aug 1963 of Leworm M Stanton 13 Aug 1955

The 483rd TCW controlled more C-119 units that any other wing. Between 1951 and 1959, the wing had the following units assigned or attached:

| Divort Reporting Unit
| Select 100 | Selec

After serving in the war in Southeast Asia, the 483rd TCW was insctivated at Carr Ranh Bay AB, Republic of Vietnam on 31 May 1972.

SPECIAL OPERATIONS GUNSHIPS

6461st TCS (attached)

AC-119G and AC-119K Shadow and Stinger gunships were operated by the 17th and 18th SOS in the active USAF and the 71st SOS from the Reserve. The 71st SOS was assigned to Bakalar AFB, Indiana, while the 17th and 18th SOSs, part of the 1st Special Operations Wing (SOW), were based at Huribur Field, Florida, for training within the Continental United States (CONUS): a term which beauer reclaims Zone

of Interior (Zi) during the 1960s.
The 1st Air Commando was activated and organized at Eglin Air Force Auxiliary Field No.9 (Hurburf Field), Fordia on 27 April 1968, and redesignated the 1st SOW on 8 July 1968. The 1st SOW replaced the 4400th Combat Crew Training Group and assumed air commando operations and training responsibility. On 15 January 1966, the wing moved to England AFB, Louisiana, and returned to Nutritor Field on 15

July 1969. C/AC-119 aircraft served within the unit between 1968-1969 and 1971-1972. Commanders of the 1st SOW during this era were:

Col Albert S Pouloit 9 Sec 1967

Col Leonard Volet 14 Feb 1969
Col Robert W Gates 15 Jul 1969
Col Michael C Horgan 31 Oct 1970
Gloss Black was applied to the lower surfaces

of the airplanes up to a line parallel with the bottom of the cockpit windows. The upper surfaces were painted in a pattern of Olive Drais (FS 34102), Dark Green (FS 34079), and Tan (FS 30219). USAF serial numbers were applied to the fins in Insignia Red. National insignia were applied to the booms and the upper surface of the right wing. The last three digits of the serial number appeared on the nose gase doors in hisping Red. Unit codes were applied to the first in Insignia White white the aircraft operated within the CONUS. The 1st SOW insignia was applied to the nose, while a TAC badge was carried on the first of some aircraft operating within the CONUS. Some aircraft operating within the CONUS.

searchights.

The 1st SOW was redesignated the 83-th Tactical Composite Wing on 1 July 1974, and the 1st SOW on 1 July 1975. The wing continues to operate from Huriburt Field with AC-130s and a variety of other aircraft.

USAF RESERVE

C-19s in the USAF Reserve varietic in makings over time. The most colorful uniter of colorful uniter of over time. The most colorful uniter of the color of the described above, Initially, other Reserve units in their atther bland sizeral in an assortment of a natural metal finish and aluminized paint. Some half and the time of the color of the color of the color did not. Some carried insigning Red Actic const; lings were applied to the nose, wingtips, and the color of the color of the color of the color of the Uniter of the color of

hurriedly painted over with aluminized paint. Some aircraft carried the Fourteenth Air Force Bengal Tiger insignia on the fins, circa 1988. The 514th TAW carried diagrant fin striping consisting of a broad white band edgin loback, with squadron colors applied to the white band ris a series of stripse piled to the white band ris a series of stripse.

White tops and blue cheat lines came into vogue during the mid-1960s. Unit designators were spelled out above the cheat line aft of the cockpit. Unit insignia were also carried aft of the

For a period, 'CONAC', for Continental Air Command, was carried on the booms. Later this was replaced by 'AFRES', for Air Force Reserve. Write lettering was applied to a blue field surrounded with a yellow edge. With the advent of the AFRES markings, came the application of the Air Force Reserve insignia on the fine.

94th Troop Carrier Wing, Medium

Established as the 94th Bonnadment Weel, Light on 10 May 19th, but will was offered to the Reserve on 26 June 1940. Based at Maries the Reserve on 26 June 1940. Based at Maries was equipped with Douglas B-26 invades, and a wastey of transer, armaly: the Boech 17 Expedience of the Policy of 14 June 1962. The unit was again reddesignated the 94th 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th Dominadment William 1962. The unit was again reddesignated the 95th (M) on 1 July 1957, while stationed at Scott AFB, Blinois, On the November 1957, the wing moved to Laurence G Harscom AFB. Massichaustists and transitioned risk C-1196. Colonel Arthur C Carroll was commander at this time. The 94th TCG Headquarters was inactivated on 14 April 1959, and replaced by the 901st TCG Headquarters on 11 February 1953. The 37sts TCS was the tectical unit assigned to the group and wing.

In addition to flying routine training missions within the CONUS, the wing began flying over-seas, including supporting contingency operations in the Dominican Republic in 1965. The wing was briefly activated for the Cuban Missile Crisis in the fall of 1962.

302nd Troop Carrier Wing, Medium

Established as the 900ml CTW MM on 16 May 1989, the unit was activated in the Reserve or 27 June 1949. While the wing was based at 1949 While the wing was based at 1949 and 1949 and 1951, it operated C-802 and C-544 as the Reserve corollary of the 60ml CCW (M) and the 355th Fighter-All Weather Wing (later Fighter-Indereptor), Regular Air Force units. When the 900ml was ordered to active service on 1 June 1951, its personnel were absorbed by the 355th Fighter Interceptor.

The 300rd TGW was reachivated at Clinton County AFB, Dirio or 14 June 1985, where it gained C-46s that were operated until 1957. The weigh open transcioning into the C-119 in The weigh open transcioning into the C-119 in The weigh open transcioning into the C-119 in exclusivity as a Reserve unt. Then, it begoinfly gain the prescription within the Z all ord overseas. In October 1968, the wing converted to the After C-119 in the C-1

During the C-119 era, the 302nd TCW was commanded by the following:

Brig Gen Donald J Campbell 14 Jun 1952 Brig Gen Ben J Mangina 15 Jun 1970

duty in support of the Cuban Missile Crisis. Between April 1968 and March 1973, the wing provided C-119 gunship training for pilots, navigators, flight engineers, and mechanics for USAF active duty personnel, and those from Ethionia, Jordan Morocco, and South Vietnam.

The wing also operated some Cessna U-3A Blue Cances between 1970 and 1972. The Lockheed C-130s were also operated in 1970 and 1971. In addition, the 302nd operated Cessna A-37s in 1970, and C-1238 from 1971. The C-119s were phased out of the wing's inventory in 1973.

Outstanding Unit Award (AFOUA) for the

The wing was redesignated the 94th TCW period of 1 January through 31 December 1) on 1 July 1957, while stationed at Scott 1970, and the Republic of Vietnam Gallantry 198, lilinois. On 16 November 1957, the wing cross with Paim for the period between 14 Februard 16 January 1969 and 29 January 1973.

349th Troop Carrier Wing, Medium The 349th TCW was established on 10 May

1949, and activated in the Reserve at Hamilton AFB, California on 27 June 1949. The unit was equipped with T-68, T-78, T-11s, and C-46s. The 349th TCW was activated for the Korean War on 1 April 1951, and inactivated on 2 April 1951. Its personnel were used to fill manpower.

vacancies in other wings.

The unit was redesignated the 349th FighterBomber Wing on 26 May 1952, and activated at
Hamilton AFB on 13 June 1952. The wing was
equipped with T-8s. C-46s. T-28s. F-51s. F-80s.

C-45s, C-47s, and F-46s.
The wing was again redesignated the 34-9th.
TCW on 1 September 1957, and gained C-119s.
1958. Biguider General Harold P. Ultile was
commander at this time, and was succeeded
by Biguider General Roll B Moore Jr. on 10.
January 1950, On 1 April 1958, the 34-9th TCW
came under that AP Reserve Technician program. On 25 October 1962, the wing was activaled for one morth during the Cubinal Metalle
statistical puller Awards for the period of 25
December 1958 through 22 January 1959.

The facilities (applications of the 349th TCM proprietd through the 349th TCM, also statistics at Harriston AFB until 14 April 1950 and 11 Harriston AFB until 14 April 1950 and 11 Harriston 1950. Between 14 April 1950 and 11 Harriston 1950 are proprietd to the 1950 and 11 Harriston 1950 are proprietd to the 1950 and 1950 and 1950 are proprietd to the 1950 are proprietd to 1950

the 313th TCS, were stationed at Portland International Airport from 11 February 1963 until 26 January 1968.
The 940th TCG, and its tactical component,

the 314th TCS, were stationed at McClellan AFB from 11 February 1963 until 26 January 1968. The 941st TCG, and its tactical component,

the 97th TCS, were stationed at Paine AFB, Washington, 11 February 1963 until 9 November 1965, when the units moved to McChord AFB, Washington. The units continued operating C-119s until 31 July 1968 when they transitioned into the C-124 Globernaster III.

375th Troop Carrier Group/Wing, Medium The 375th TCG operated C-47s in the Southwest Pacific during World War Two. The unit was inactivated on Okinawa on 25 March 1946. Allotted to the Reserve, the 375th TCG was activated at the Greater Pittsburgh Airport, Pennsylvania and equipped with C-48s on 3 August 1947. The unit moved to Greenville AFB, South Carolina on 15 October 1950, where it gained C.82e. The 375th TCG was commanded by

1 Feb 1952

Caromit of 15 October 1950, where it game C-82s. The 375th TCG was commanded by: Unknown Capt Charles J Newell 15 Oct 1850 Lt Col Charles R Gianque 7 Nov 1950 Col Kenneth L Johnson 13 Nov 1951

Col Stewart H Nichols 17 Apr 1952

The 375th TCW was established on 10 May 1949, and activated in the Reserve on 27 June 1947. The wing was equipped with C-82s and

Lt Col Arthur J Stayley

1947. The wing was equipped with C-82s and stationed at Greenville AFB, South Carolina. The 375th TCW was commanded by:
Brig Gen Emil H Molthan 27 Jun 1949
Col William S Johnston 14 Sep 1949

Lt Col Stanley V Fowler
Col Lance Call CSep 1950
Col Lance Call CSep 1950
Col Glynne M Jones 3 Mar 1952
Brig Gen Franklin Rose 22 May 1952
Col Arthur R Anderson 14 Jul 1952
Col Alack R Adams CMar 1953
Col Alack R Adams 15 Ren 1956
Col Albret R Starr 1 Sep 1956

During this period, the component squadrots of the 375th TCW were: 55th TCS, 56th TCS, 57th TCS, 58th TCS.
The 375th TCG was called to active duty and assigned to Tactical Air Command on 15 Otto-

ber 1950, and inactivated on 14 July 1952.
The 375th TCG was a component of the wing between 27 January 1949 and 16 November 1957. The 375th TCW was called to active duly on 15 October 1950 and was reallocated to the Besserve on 18 November 1957.

The C-82s were supplemented by C-45s in 1951 and replaced by C-46s during 1952 and 1953. C-119s came into the inventory in 1954 and continued into 1957. During C-119 ex, the component squadrons were: 55th TCS, 59th TCS.

Between June 1949 and October 1950. The 1959. The 1959 and 1959 and 1959 are 1959. The 1959 and 1959 and 1959 are 1959 and 1959 and 1959 are 1959 and 1959 and 1959 and 1959 are 1959 and 1959 and 1959 are 1959 and 1959 and 1959 are 1959 and 1959 are 1959 and 1959 are 1959 are 1959 and 1959 and 1959 are 1959 are 1959 are 1959 and 1959 are 1

wing performed Reserve flying training. White on active duty, the 375th TCW participated in troop carrier/air/lift operations and paratest drops, and other exercises. Buttween 14, July 1952, and 16 Movember.

1957, the 375th TCW was stationed at the Greater Pittsburgh Airport, Pennsylvania.

403rd Troop Carrier Wing, Medium After World War Two, the 403rd TCG was allo cated to the Reserve. The unit was adjusted to

Portland Municipal Airport, Oregon, on 27 June 1949, where they operated C-46 and C-47 accraft until 29 March 1952. The 403rd TCG transitioned into C-119 and

was activated for service during the forse War. The group operated out of Ahlys & Japan, between 14 April 1982 and 1 Janus 1983, aiding UN forces by dropping paraness and supplies, transporting personnel as equipment, and evacuating casualities. Forse vice in Korna between 14 April 1982 and Docember 1992, the group was awarded its Republic of Korna Presidence (Japania, Nasition, the following campaign ribbons were awarded: Korea Summer-Fall 1952 and the Third Korean Winter. Colonel Maurice F Casey commanded the 403rd TCW during this period; while the 407rt TCS commanders was

Maj Wallace C Forsythe 22 Apr 1952 Lt Col Ernest W Burton Aug 1952

When the 403rd TCG arrived in Japan, the marking applied to the aircraft consisted of a series of alternating stripses on the vertical tail three colored and two whitely and four each three colored and two whitely and four each white and colored diagonal stripps on the notes guardoors. In addition, the none was painted in in the separation color with a small separating circle in white. The signation colors were 60rd TCG/Bred/Fying/Jennies, 68th TCG/Bred/Feber 87th TCG/Bred/Feber 87

When aircraft began arriving with dorsal fins, the squadron names were applied to these fins. The 403dr CfG was relieved from active duly and inactivated in Japan on 1 January 1983, alotted to the Reserve, and activated at Portland International Airport, Oregon. The wing remained at Portland until November 1957

where they operated C-46s.

On 16 November 1957, the 403rd TCW moved to Selfridge AFB, Michigan under the command of Colonel James H McPartlin. There the wing regained C-119s. The 403rd TCG Headquarters supervised the operations of the 53rd, 64th and 65th TCSs until 11 February

The 927th TCG Headquarters, also at Selfridge AFB, was assigned to the wing between 11 February 1963 and 31 December 1969, with the 63rd TCS reporting to it.

The 928th TCG Headquarters, based at 0Hare International Airport, Illinois, was assigned to the wing between 11 February 1963 and 1 December 1969, having the 64th

The 929th TCG Headquarters, based at Davis Field, Oklahoma, was assigned to the sing between 11 February 1963 and 1 January 1964, having the 65th TCS assigned.

When the 403rd TCW moved to Selfridge 4RB in November 1957, it absorbed the isources of another Reserve wing. There it confined to train as a Reserve unit until 1987, the wing participated in numerous tactide sercices and humanitarian missions, and vasadvated for a month during the fall of 1982 trite Cusan Missiole Crisis.

433rd Troop Carrier Wing, Medium

Ner World War Two, the 433rd TCG was inactased at Tachikawa AB, Japan. The unit was sixted to the Reserves and activated at Akron, the, on 6 July 1946. They trained in C-46 and 47 aircraft. On 27 June 1949, they relocated a Ceveland Municipal Airport, Ohio. The unit as nicknamed 'The Royal Ohio'.

With the advent of the Korean War, the 433rd as activated and relocated at Greenville AFB, buth Carolina, on 16 October 1950. They

were remained there undergoing transition training in in-11se und 20 July 1981. The ASIZE TCW seys was under the command of Colonel Harry W. CHOpp. a Work War Two froop carrier plott who flew for the airlines after the hostilises. Assigned to USAFE, the ASIZE flow on at Phani-Man AR, West Germany, no. 7 August 1981. When in Europe A. August 1981. When in Europe A. Two and the Colonel are all the colonel and the colonel are all the colonel and the colonel are all the colonel and the colonel and the colonel are all the colonel and the colonel are all the colonel and the colonel and the colonel are all the colonel and the colonel are all the colonel and the colonel and the colonel are all the colonel are all the colonel are all the colonel and the colonel are all the

the 317th TCW that was activated at that time.
Commanders of the 43drd TCG during this era were:
Col.James B Henson 1 May 1951
Maj Cifford F Harris c15 Dec 1952

Commanders of the 433rd TCW during this era were:

Col Lewis M Merrick: 15 Jan 1951

Col Harry W Hoop 20 Jul 1951

14 Jan 1952

Col Donald J French

69th TCS Blue Yellow

When the 433rd TGG was activated and acquired C-118e, they enhalted them in attractive colors. A diamond was applied to the mose within a circle and a set of wings settended aft along the fuselage sides. The entire donal in and vertical first were marked in a solid color divided by three diagonal stripes, the lowest which covered the top of the donal fin. In additional to the color of the donal fin. In additional to the color of the donal fin. In additional to the color of the donal fin. In additional to the color of the donal fin. In additional fin. In addi

The assets of the 433rd TCG were acquired by the 317th TCW in 1952, and the markings of the former unit were retained for a brief period.

Allocated to the Reserve, the 433rd was subsequently reactivated at Brooks AFT. Tevas on

sequently reactivated at Brooks AFB, Toxas on 18 May 1985, reverting to C-46. The wing operated C-46s between 1955 and 1958. Sub-sequently the 433rd operated C-119s between 1957 and 1971. The unit moved to Kelly AFB, Texas on 1 November 1960, and operated some C-124s in 1963. The wing began transition into the C-124s in 1969, while continuing to coerate the C-119s.

Brigadier General John H Foster assumed command of the wing when it returned to the 21 in 1955. Between 18 May 1955 and 14 April 1959, the 433rd TCG Headquarters directed the operations of the 67th, and 68th TCSs ta-

The 908th TCG Headquarters, stationed at Bates Field, Alabama, between 11 February 1963 and 25 April 1969, had the 357th TCS

The 916th TCG, based at Carswell AFB, Texas, oversaw operations of the 77th TCS between 18 March and 1 July 1963.

The 921st TCG Headquarters, with its tactical unit the 67th TCS, were assigned to Kelly AFB, Texas, between 17 January 1963 and 26 January 1968, and again between 2 June 1969 and 1971 when they transitioned into C-124s.
The 922nd TCG Headquarters and its subordinate 68th TCS were also assigned to Kelly
AFB between 17 January 1963 and 1971 when

they transitioned into C-124s.

The 923rd TCG Headquarters was assigned to the 433rd TCW from 17 January 1963 until 25 November 1965. On 1 April 1963 both the group and its tactical component, the 69th TCS were passiment for Caresual LAST. Texts.

434th Troop Carrier Wing, Medium The 434th TCW (M) was established and activated in the Reserve on 1, July 1949, and was

stationed at Atterbury AFB, Indiana. Initially he wing was equipped with the Beech T-T Expeditor/T-11 Kansan and C-45, C-46, C-47, and North American T-6 Texan. C-119s came into the inventory in 1957. The wing had three troop carrier groups assigned. The 434th TCM was commanded by:

Brig Gen John O Bradshaw 22 Apr 1953

Brig Gen John O Bradshaw 22 Apr 1953
Brig Gen John W Hoff 13 Oct 1962
Brig Gen Alfred Verhulst 16 Jul 1967
The 930th TCG Headquarters had the 71st TCS

assigned. Both units were at Bakalar AFR. Indiana from 11 February 1963 until 13 May 1968. On that date, the units at Bakalar AFB were redesignated the 434th Tactical Airlift Wing (TAW) and 71st Tactical Airlift Squadron (TAS). respectively. By 15 June 1968 the 71st TAS and its 18 C-119Gs moved to Lockbourne AFB, OH for training in gunship operations by the 4413th Combat Crew Training Squadron, Personnel from the group's command section, 930th Consolidated Maintenance Squadron, and 930th Aerial Port Squadron augmented the 71st TAS that trained in the AC-119G gunship at Lockhourne AFR. Ohio, and then served in Vietnam between January and 4 June 1969. The unit returned to Bakalar AFB on 30 May 1969. where they continued to operate the C-119 The units moved to Grissom AFB, Indiana, on 15 January 1970 and transitioned into the Cessna A-37.

The 931st TCG Headquarters was assigned to the wing on 11 February 1963, with the 72nd TCS as its tactical component. Both units were stationed at Bakalar AFB, Indiana until 15, January 1970. During 1968, the 72nd TCS fiew air-lift missions into combat areas in Southeast Asia. The C-119s were phased out in late 1969, and refeland by Censni L3AR Blue Cannes.

The 932nd TCG Headquarters, with its 73rd TCS, was stationed at Scott AFB, Illinois between 11 February 1963 and January 1967. The 73rd TCS was capable of performing the

trapeze recovery mission with its beavertailed C-119s. The unit transitioned into the C-124 for the aeromedical evacuation role.

The 434th TCW trained as a Reserve troop carrier until coming under the ART program in October 1958. The wing flew routine training exercises and overseas missions. During the fall of 1962, the wing was activated for one month in support of the Cuban Missile Crisis. Redesignated the 434th TAW on 1 July 1967 and inactivated on 31 December 1971. Redesionated the 434th Special Operations Wing on 12 January 1971, the unit was activated in the Reserve on 15 January 1971. The wing was again redesignated the 434th Tactical Fighter Wing on 1 October 1973 and transitioned into Cessna A-37s Between 1980 and 1987, the wing operated Fairchild A-10 Thunderbolt lis or Warthoos. On 1 July 1987, the unit was redesignated the 434th Air Refueling Wing (ARW) and gained Boeing KC-135 Stratgtankers and McDonnell Dounlas KC-10 Extenders, Currently the 434th ARW operates KC-135Rs from Grissom AFRB, Indiana, The 72nd and 74th

ARSs are each equipped with 11 tankers. 435th Troop Carrier Wing, Medium

Etablished as the 4595 TCW (M) or 10 May 1949, the unit was activated at Manin International Aprot, Florida on 26 June 1949. The way was equipped with Beech T-7 Expoditor/T-1 Kansan, C-46, C-47, and North American T-6 Tean until 1951 when the was under the uppersion of the 2695 M are suited to the C-119 June 1958, the way was under the uppersion of the 2695 M Ar Force Reservo Taining Certies. After operating the C-119 June 1959, the way for the Way for the C-119 June 1959, the Way for th

The wing entered the ART program in April 1958, and was able to operate independently by December that year. The 435th TCW relocated to Homestead AFB, Florida on 25 July 1960, where it remained until 1 December 1965. Two of the squadrons transitioned into C-124s in 1961. The wing was redesignated the 435th TCW (H) for the period between 18 September 1961 and 1 July 1963. The 435th TCW (H) was called to active duty between 1 October 1961 and 27 August 1962. Again redesignated the 435th TCW (M) on 1 July 1963, the wing was discontinued and inactivated on 25 November 1968. During this period, the wing was under the command of Colonel Robert C Hutton

Between 26 June 1949 and 1 December 1952, the 435th TCG Headquarters oversit the operations of the 772nd and 773rd TCS. The 435th TCW was replaced at the Miami International Airport. Florida by the 482nd TCW.

sonal ariport, Protosa by the electro Tow.
The 908th TCG Headquarters, and its 357th
TCS, were stationed at Bates Field, Alabama
from 11 February 1963, and Brockley AFB,
Alabama between 1 October 1964 and 1
December 1965, when both units were transferred to the 448th TCW.

The 915th TCG Headquarters and the 76th TCS were stationed at Miami International Airport, Florida between 17 January 1963 and 1 December 1985.

December 1965.
The 916th TCG Headquarters and the 77th
TCS were stationed at Donaldson AFB, South
Carolina between 17 January and 18 March

The 917th TCG Headquarters and the 78th TCS were stationed at Barksdale AFB, Texas between 17 January and 1 July 1963.

436th Troop Carrier Wing, Medium Established as the 436th TCW (M) on 10 May 1949, the winn was activated in the Reserve at Goodman AFR, Kentucky, on 27 June 1949. The wing was ordered to active service on 1 April 1951, and returned to Reserve status on 16 April 1951, when the unit was inactivated. Reactivated again in the Reserve on 18 May 1955, and assigned to the First Air Force, the unit was stationed at NAS New York, During this period the wing was equipped with C-46s. Then in 1957 the unit added the C-119. The 79th and 81st TCSs were assigned during this period. Apparently the C-119s were only opersted between 1 February and 14 November 1957 while the wing was under the command of Colonel Michael P Yannell. The wing was inactivated on 15 May 1958.

437th Troop Carrier Wing, Medium Established as the 437th TCM (M) on 10 May 1940, at Chicago-Orchard Airport (later O'Hare Heid-Chicago Hernardiner Airport), lilenio, the wing was activated in the Reserve on 27 June 1940. The wing was activated in the Reserve on 27 June 1950, The wing was activated on 10 June 1950 and inactivated on 10 June 1950 and inactivated on 10 June 1950 and inactivated on 10 June 1950. Apparently the wing only operated the C-119b between 2 May and 18 November 1987. The William Colonel Joseph E Whitheell. The 437th TCG oversam operations of the Sixth 484th, and

85th TCSs.

439th Troop Carrier Wing, Medium
Established as the Sight TrOV (M) or 19 May
1468, the wing was activated in the Reserve at
1468, the wing was activated in the Reserve at
wing seas ordered to be compared to the Reserve at
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440th Troop Carrier Wing, Medium Established as the 440th TCW (M) on 10 May 1949, the wing was activated in the Reserve at Wold-Chambertain Municipal (later Minnespolis-St Paul International) Airport, Minnesota, on 27 June 1949. The wing was ordered to active service on 1 May 1951, and inactivated on 4 May 1951. During its period the unit operated the C-48 and a variety of training aircraft. Reclassignated the 40th Fighter Bornber Wing Reclassignated the 40th Fighter Bornber Wing Receive on 15 May 1952, at 6 of Seeling, Marchael Control, 15 May 1952, at 6 of Seeling, Marchael Control, 15 May 1952, at 6 of Seeling, Marchael Control, 15 May 1952, at 6 of Seeling, Marchael Control, 15 May 1952, at 6 of Seeling, May 1952, and relocated to General Bigh Method Field, Wasconsis. The wing translationed into C-119s at this time, will was under the Control and of Seeling General Seeling Methods General Seeling Methods (Seeling General Seeling Methods).

The 440h TCW trained as a Reserve toop carrier wing under the supervision of the 246th. Air Force Reserve Training (later Air Reserve Training (later Air Reserve Training (later Air Reserve Training (later Air Reserve Prycing) Centre between June 1957 and Ebecthe Prycing) Centre between June 1957 and Ebecthe Prycing Centre between June 1957 and Ebecthe Prycing Centre Server (1958). The 1958 the 4450 TCG Reserved Program During the fall of 1958, Until 14 April 1959, the 4450 TCG Reserved Program During the 1958 the 450 TCG Reserved Program Centre Server (1958).

The 914th TCG Headquarters and its flying component, the 928th TCS, operated from Nigara Falls Municipal Airport, New York, between 1 September 1969 and 21 April 1971. Both units were reassigned to the 302nd TCW (M) and transitioned into C-130s.

The 933rd TCG Headquarters and its tactoil unit, the 95th TCS, were stationed at General Bilty Mitchell Field, Wisconsin, from 11 February 1963. In 1970, the unit transitioned its C-130s.

The 934th TCG Headquarters and the 95th

The 934th TCG Headquarters and the 98th TCS were stationed at Minneapolis-St Paul International Airport, Minnesota, from 11 Fabruary 1963. In 1970, the unit transitioned into C-130s. The 440th TCW garnered the Air Force Asse-

ciation's trophy for the outstanding Air Fors Reserve flying unit for 1963, 1964, 1968, air 1968. In addition, the wing was awarded the Republic of Vietnam Gallantry Cross with Pen for operations between 14 February and 11 March 1968.

442nd Troop Carrier Wing, Medium The 442nd TCW (M) was established on 10

May 1940, and substantion in the Reserve 154.

As Field, Kinnan, or 27 June 1940. This operated C-46s, C-47s, and a variety risks, a variety for 154.

January 1842, the wing need NAS Glottle, Kinnan, 1842, the wing need NAS Glottle, Kinnan, 1744 Addo 170.

January 1842, the Wing need NAS Glottle, Kinnan, 1744 Addo 170.

Helder 1947, Annan, 1744, Annan, 1

The 442nd TCW operated C-119s between 1957 and 1961, and again between 1968 at 1967. C-124s were added to the invertory's SCHIDED 1961. The 442nd TCG Headquarters oversaw the operations of its two tactical components. the 904th and 905th TCCs

The 916th TCG Headquarters and 77th TCS regrated from Donaldson AFR South Carolina between 1 July 1963 and 8 January 1965 The 917th TCG Headquarters and 78th TCS

presented out of Barkertale AEB Louisiana between 1 July 1963 and 5 February 1965. The 932nd TCG Headquarters and 73rd TCS

were stationed at Scott AFB. Illinois between 1 October 1966 and 1 April 1969. The 935th TCG Headquarters and 303rd

TCS were based at Richards-Gebaur AFR Kansas between 17 January 1963 and 5 Febnary 1965.

443rd Troop Carrier Wing, Medium The 443rd TCW (M) was established on 10 May

1949 and activated in the Reserve at Hensley Feld Texas, on 27 June 1949. The wing operated C-46s and a variety of training aircraft. On 9 August 1951, the wing moved to Tinker AFB. SC. The 443rd TCW was under the supervision of the 2598th Air Force Reserve Training Center between June 1949 and April 1951.

The 443rd TCG Headquarters over saw merations of the 309th and 310th TCSs while they operated C-119s between 1952 and 8 Janusry 1953, when the wing was inactivated. The wing operated closely with other troop carrier wings to test and evaluate new troop carrier detrine and propedures. During this period the 443rd TCW was under the command of Colonel William E Shuttles.

445th Troop Carrier Wing, Medium The 445th Fighter-Bomber Wing was estab-Ished on 24 June 1952, and activated in the

Reserve at Buffalo, New York, on 8 July 1952 Municipal Airport, New York, The wing again moved to Dobbins AFB. Georgia, on 16 November 1957. Redesignated the 445th TCW M on 6 September 1957, and the 445th Troop Carrier Wing, Assault on 25 September 1958. While operating C-119s between 16 November 1967 and some time in 1966. The wing was oder the command of Brigadier General George H Wilson during this period.

The 915th TCG Headquarters oversaw the transition of the 96th TCS while both were statreed at Miami International Airport, Florida ton 1 December 1965 The 918th TCG Headquarters and its tactical

component, 700th TCS, were stationed at Dobans AFB, Georgia, from 11 February 1963.

With Troop Carrier Wing, Medium he MRh TCW (M) was established on 11 April

165 and activated in the Reserve at Ellington IFB. Texas, on 2 May 1955, replacing the 108th Pilot Training Wing. The unit operated 18s and C-46s between 1955 and 1958. \$119s were in the inventory between 1957 and 970 Initially Colonel Forrest R Harsh, then

Brigadier General Bussell F Gustice commanded the 446th TCW during this era. In 1959, the wing came under the APT program The 446th TCG Heartouarters oversaw oner-

ations of the 704th 705th and 706th TCSs between 25 May 1955 and 14 April 1959

The 908th TCG Headquarters and its tactical component the 357th TCS operated from Bates Field, Alahama from 1 December 1965 until 1 May 1968. The unit operated C-119s dur-

ing 1962 The 924th TCG Headquarters and the 704th and 706th TCSs operated from Ellington AER Texas between 17 January 1963 and 1 July 1972. The C-119s were in the inventory

between 1963 and 1970. The 925th TCG Headquarters and the 705th TCS based at Ellington AFR Texas were assigned to the wing between 17 January 1963

and 28 March 1968. The 929th TCG Headquarters was assigned to the wind between 17 January 1963 and 1 May 1968, and again between 1 October 1969

The 446th TCW was swarded the AEOLIA for the period 1 December 1967 to 10 January 1972. In addition, the wing was awarded the Republic of Vietnam Gallantry Cross with Palm for operations between 1 April 1966 and 29 hine 1971

452nd Troop Carrier Wing, Medium The 452nd Bombardment Wing, Light was

and 1 July 1972

California, on 27 June 1949. The wing was ordered to active service on 10 August 1950. operated Douglas B-26 Invaders in Korea, and was inactivated on 10 May 1952. Redesignated the 452nd Tactical Reconnaissance Wing on 6 June 1952, the unit was activated in the Reserve on 13 June 1952. The wing was redesignated the 452nd Bombardment Wing, Tactical on 25 May 1955. The unit was then redesignated the 452nd TCW (M) on 1 July 1957, and operated C-46s from Long Beach Municipal Airport through 1958. Between 1958 and 1969, the wing operated C-119s. When the Flying Boxcars entered the wing inventory. Major General John R Alison was commander. E Schlagel on 1 October 1959, and Brigadier General Earl O Anderson on 16 May 1960. The 452nd TCG Headquarters supervised operations of the tactical units, the 728th,

729th, and 730th TCSs, between 1958 and 14 April 1959 The 943rd TCG Headquarters and the 729th

TCS were assigned to the 452nd TCW and stationed at March AFB, CA between 17 January 1963 and 25 April 1969.

The 944th TCG Headquarters and the 730th TCS were stationed at March AFB. California from 17 January 1963, until 25 March 1968. The 945th TCG Headquarters and the 733rd

TCS were stationed at Hill AFB. Utah between 17 January 1963 and 1969

The 452nd TCW was awarded the Republic of Vietnam Gallantry Cross with Palm for operations between 1 January 1967 and 31 Decemher 1971

459th Troop Carrier Wing, Medium

The 459th TCW was established on 30 Decemher 1954 and activated in the Recens at Andrews AFR Maryland on 26 January 1965 Retween 1955 and 1958 the unit operated both the Beech C-45 Expeditor and Curtiss C-46 Commando. The 459th TCG was component of the winn hetween 26 January 1955 and 14 April 1959. The 756th TCS was assigned to the 459th TCG during this period. Three 900-series groups replaced the 459th TCG on 17 January 1963, as the wing gained greater geographical responsibilities. During the period the wing operated C-119s it was commanded by Brigadier General Ramsey D Potts Jr. followed by Brigadier General Charles D Briggs Jr. on 19 June 1960

The 909th TCG Headquarters and the 756th TCS were assigned to the 459th TCW and stationed at Andrews AFB. Maryland between 17 January 1963 and 1 September 1975. The unit operated C-119s between 1963 and 1967 The 910th TCG Headquarters and the 757th TCS were assigned to the 459th TCW and sta-

tioned at the Greater Pittsburgh Airport, Pennsylvania between 17 January 1963 and 1 July 1966. Both the group and squadron were reassigned to the 302nd TCW on 1 July 1966, at established on 10 May 1949, and activated in which time the squadron transitioned from the Reserve at Long Reach Municipal Airport. C-119Cs to C-119Gs The last C-119Gs departed the unit in December 1969

The 911th TCG Headquarters and the 758th TCS were assigned to the 459th TCW and stationed at the Greater Pittshurch Airport, Pennsylvania from 17 January 1963. The squadron operated C-119s between 1963 and 1967.

482nd Troop Carrier Wing, Medium Established as the 482nd TCW on 26 May

1952, the unit was activated in the Reserve at Miami International Airport on 14 June 1952. The wing was equipped with C-46 Commandos On 1 December 1952, the wing was inactivated. Redesignated the Fighter-Bomber Wing on 12 April 1955, the wing was activated in the Reserve at Dobbins AFB, Georgia on 18 May 1955, C-119s came into the wino's inventory however the unit was inactivated on 16 November 1957. Colonel George H Wilson commanded the wing during this period. Then the wing was replaced the 445th TCW on 16 November 1957.

512th Troop Carrier Wing, Medium The 512th TCW was established on 4 August

1949, and activated in the Reserve at Reading Municipal Airport, Pennsylvania, on 2 September 1949. The unit was equipped with Beech AT-7s and AT-11s, and Curtiss C-46s. The wing moved to New Castle County Airport, Delaware on 12 April 1951. On 15 March 1951, the wing was ordered to active service and supported LISAF worldwide airlift requirements. The wing reverted to Reserve status on 14 June 1952. and remained at New Cartle County Airport until moving to NAS Willow Grove Pennsylva. nia on 20 July 1958. The 512th TCW operated C-119s between 1957 and 1963. During this period the wing was commanded by Brigadier General John S Bachy

The 512th TCG and its tactical units the 326th 327th and 328th TCSs were assigned to the 512th TCW between 14 June 1952 and 14

The 912th TCG and the 326th TCS stationed

at NAS Willow Grove Pennsylvania were assigned to the 512th TCW between 11 February 1963 and 8 January 1965. Both units were resssioned to the 302nd TCW on 8 January 1965 while remaining at NAS Willow Grove. The 913th TCG and the 327th TCS, stationed

at NAS Willow Grove. Pennsylvania, were assigned to the 512th TCW between 11 January 1963 and 8 January 1965

The 914th TCG and the 328th TCS, stationed at Niagara Falls International Airport, New York, were assigned to the 512th TCW between 11

January 1963 and 1 January 1964 The 916th TCG and the 77th TCS stationed at Donaldson AFB. South Carolina, were assigned to the 512th TCW from 8 January 1065

The 917th TCG and the 78th TCS stationed at Barksdale AFB. Louisiana, were assigned to the 512th TCW from 5 February 1965. 514th Troop Carrier Wing, Medium

Established as the 514th TCW on 10 May 1949. the wing was activated in the Reserve at Birmingham Municipal Airport, Alabama on 26 June 1949;, the unit was equipped with C/TC-46s, T-6s, T-7s, and T-11s. The wing was reassigned to Mitchel AFB. New York on 10 October 1949. ordered to active service on 1 May 1951, inactivated on 1 February 1953, and reactivated at Mitchel AFR in the Reserve on 1 April 1953. Its transitioning into C-119s on 31 December 1952 and replaced the 313th TCW at Mitchel AFR on 1 February 1953. For the next two years, the wing reverted to C-46s and trained under the Training Center (later 2233rd Air Reserve Flying Center). The wing was then again to operate C-119s from July 1954 until 1970. On 1 April 1958, the 514th TCW began participating the Air Reserve Technician Program, Subsequently the wing participated in airlift missions, tactical exercises, humanitarian missions, and mercy flights. Brigadier General Arthur L McCullough commanded the wing while it operated C-119s during 1952 and 1953. When C-119s returned to the wing and operated between 1954 and 1970, the 514th TCW was commanded by: Major General Clayton Stiles. followed by Brigadier General Campbell Y Jackson on 1 October 1959.

The 514th TCW trained both aircrews and

maintenance technicians for the VNAF, and

Royal Hellenic Air Force, Between 10 August and 18 December 1967, the wing ferried a numher of C-119s to South Vistnam The 903rd TCG and 335th TCS stationed at

McGuire AFB. New Jersey, were assigned to the E14th TCW from 17 January 1963 The 904th TCG and 326th TCS were stationed at Stewart AFR, New York, and assigned to the 514th TCW from 17 January 1963 until 1

July 1966 The 905th TCG and 337th TCS stationed at Westover AFR Massachusetts were assigned

to the 514th TCW from 17 January 1963. The 912th TCG and 326th TCS, stationed at NAS Willow Grove Pennesérania were

sesioned to the 514th TCW from 1 July 1966. The 913th TCG and 327th TCS stationed at NAS Willow Grove. Pennsylvania, were assigned to the 514th TCW from 1 July 1966.

516th Troop Carrier Wing, Medium The 516th TCW was established on 10 May

1949, and activated in the Reserve at the Memphis Municipal Airport Tennessee on 26 June 1949. The wind operated T-7s. T-11s. and C-46s During 1952 the wing transitioned into C-119s, which they operated until 16 January 1953, when the 516th TCW was replaced by the 463rd TCW. The wing was commanded by Colonel Willis W Mitchell.

AIR NATIONAL GUARD

As with the Reserve aimlanes, the ANG C-119s. evolved from anonymous airplanes to those with unit identifiers. State abbreviations first anneared on the fuselene: that is "PA AIR GUARD' 'N.I. AIR GUARD' and 'N.Y. AIR. GUARD'. Subsequently, standard USAF markings were applied and the ANG insignia was added to the fins. As with the Reserve airplanes, some unit identifiers were spelled out Unit insignia were also applied to the forward fuselage. A number of aeromedical evacuation aircraft were equipped with beavertail doors and carried a red cross on the fins. Some carried Insignia Red Arctic trim and others did not. Dayglo orange markings were applied to the nose, wingtips, and booms during the late 1950s and early 1960s. Some had white tons with blue cheat lines and others did not. Some carried red Arctic trim and others did not. Dayglo orange markings were applied to the nose, wingtips, and booms during the late 1950s and early 1960s. With the advent of the Cuban Missile Crisis in 1962, the dayolo trim was either removed or hurriedly painted over with alu-Some special operations airplanes were

painted in an overall Gloss Black (FS 17038). 'U.S. AIR FORCE' appeared beneath the two aft-most cockpit windows and extended aft to the prop warning line. The white tops and blue. cheat lines varied - some came straight back from the top of the cockpit window line and ran aft to the prop warning line; others started at the

middle of the aft vertical frame of the cockpit window and ran aft to the prop warning line: still others had the full white too with the chest line rupping aft from the bottom frame of the cock pit windows to the prop warning line, then dropping diagonally to just above the main cabin windows and ran aft parallel to the airplane waterlines and wrapped around the clamshell doors. Some aircraft carried the squadron insignia on the forward fuselage in lieu of the last three clinits of the tail number. An ANG Misuteman insignia was applied to the outboard surfaces of the vertical fins on some of the aircraft, while other aircraft carried the squadron incionis within the white can above the word 'AIR' in 'II S AIR FORCE' In the latter rase the last three digits of the tail number were applied

in reduced size, beginning below the aft drop There were 12 ANG units in 10 states over ating C-119s

California ANG

window and running aft

The 129th TCS from the California ANS was equipped with C-46Ds that were supplemented with Grumman SA-16A Albatrosses in the summor of 1959. Helio II-104 Couriers were added to the inventory in early 1963. The 129th TCS was a TAC-nained unit. On 1 July 1963 though was redesignated the 129th Air Commands Squadron (ACS) and C-119Cs were added to the squadron inventory Between 1966-1967 the unit replaced its U-10As with de Havilland Canada U-6A Reavers. On 1 August 1968 the unit was again redesignated as the 129th Special Operations Squadron (SOS), During FY68, the C-119Cs were replaced with C-119Gs Then during FY73, the C-119Gs were replaced with C-119Ls. The 129th SOS operated C-119C/G/L aircraft from Fresno Airpor between 1963 and 1975

Mississippi ANG

Pilots began transition training for the article pated Republic RF-84Fs the 183rd Tactical Reconnaissance Squadron (TRS), Mississini ANG were to use as replacements for their RB-26s, but a lack of suitable facilities precluded consummation of the transition. On 15 November 1957, the unit was redesignated the 183rd Aeromedical Transport Squadron (ATS) and became a MATS-gained organization. The 183rd ATS operated C-119Fs in the aeromet ical transport role from Hawkins Field between November 1957 and July 1962, when they tree

New Jersey ANG The 150th ATS from the New Jersey ANGore

ated C-46Ds from Newark Airport, During Otto ber 1958, the squadron transitioned into the C-119G/MC-119J for the aeromedical transport role and became a MATS-gained organization During October 1962, the unit transitioned its The 150th ATS C-119s where painted in at

overall aluminum finish and had a white co

and blue cheat line extending aft from the upper cockoit window frames. The noses were dwnlo orange, 'N.J. AIR GUARD' appeared on the forward fuse/age from beneath the next to the last conkrit window to the oron warning Ine. A red cross was applied to the outboard surfaces of the vertical fins above the tail numhers Annarently nose numbers were not

New York ANG

The 102nd Fighter Interceptor Squadron (FIS). New York ANG operated Lockhead E-94B Starfires from Floyd Bennett Field INAS New York). During September 1958, the unit converted into C/MC-119Js and was redesignated the 102nd ATS, MATS was the gaining command. During the winter of 1962, the unit transtioned into C-97As.

North Carolina ANG The 156th FIS, North Carolina ANG, flew

F-86Ls. On 1 February 1961, the unit was redesignated the 156th ATS and became a MATS-gained organization. Beginning in May 1961, the squadron operated C-119Cs from Douglas Municipal Airport until June 1962. when they transitioned into C-121C/Gs.

Ohio ANG

The 145th ATS from the Ohio ANG operated C46Ds from the Akron-Canton Municipal Airport. The squadron converted to C-119Js for the aeromedical transport role on 1 February 1968 and became a MATS-gained organization on 1 July 1960. During the winter of 1961, the unit transitioned into KC-97Fs.

Pennsylvania ANG The 140th ATS from the Pennsylvania ANG

corated C-46Ds from Spaatz Field. Reading. Redesignated the 140th Aeromedical Evacuaton Squadron (AES) on 1 February 1957, the unit converted to C-119Us and at least two MC-119Js in April 1958, MATS would gain the soundron upon activation. On 1 February 1961. he squadron moved to Olmstead AFB where the runways were longer.

The 140th AES aircraft were in natural metal hish marked with dayglo orange trim. 'P.A. AR GUARD' appeared below the aft-most two torknit windows and extended back to the are warning line. The last two digits of the tail number were centered below the guard desig-Nation.

The 147th FIS from the Pennsylvania ANG serated F-86Ls from the Greater Pittsburgh Arport. On 1 May 1961, the unit was redesigsted the 147th ATS, and gained C-119Us for te aeromedical transport role. On 18 February 1964, the unit began transitioning into 0121Gs

The 147th ATS aircraft were marked with tagle orange trim and had white tops with tile cheat lines. 'P.A. AIR GUARD' appeared alow the aft-most two cockoit windows and standed back to the prop warning line. The

last two digits of the tail number were centered below the guard designation. Some aircraft carried the last three digits of the tail number on the nose gear doors.

Rhode Island ANG

The 143rd ACS from the Bhode Island ANG operated UH-16B Albatrosses then added U-6As and U-10Ds to their inventory for the special operations role from T F Green Airport. Rhode Island. On 19 August 1968, the unit was redesignated the 143rd SOS. During the fall of 1961, the squadron began replacing their UH-16Bs with C-119Gs that were subsequently converted into C-119Ls. During the summer of 1975, the 143rd SOS phased-out its C-119Ls and U-10Ds, and gained C-130As

West Virginia ANG

The 130th Air Resupply Squadron from the West Virginia ANG operated both C-46Ds and SA-16s from Kanawha County Airport. Redesignated the 130th TCS on 10 October 1958, the unit became a TAC gained organization on 1 July 1960. The squadron transitioned into C-119Cs and Helio U-10Bs in January 1962 Subsequently C-119Gs and C-119Ls came into the unit's inventory. The squarfron was rectasignated the 130th ACS on 1 July 1963. During August 1965, the U-10Bs were replaced by U-6As. Then in June 1967, the U-6As were replaced by U-10Ds. Redesignated the 130th SOS on 8 August 1968, the C-119s continued departed in September 1975. Then the primary mission aircraft became the C-130E

After trading in their F-86Hs, the 167th FS operated C-119Cs from Kanawha County Air. port between the spring of 1961 and July 1963. when the unit began transitioning into C-121Cs. By January 1964, the transition was complete. While operating the C-119s, the unit

Wyoming ANG

The 187th TFS from the Wyoming ANG operated F-86Ls, from Chevenne Municipal Airport. In February 1961, the unit began conversion into C/MC-119.ls in the gerometical transport role. On 1 May 1961, the unit was redesignated the 187th ATS and became a MATS-gained organization. Poor performance of these aircraft at higher field elevations led to conversion into the C-119CEs. In April 1963, the unit began transitioning into C-121Gs. 'USAF' was deleted from wings and 'WYO AIR GUARD' was applied to the forward fuselage in lieu of 'U.S. AIR

47th BOMB GROUP

The 47th BG was activated on 12 March 1951. at Langley AFB, Virginia, and assigned to Tactical Air Command. The group was equipped with North American B-45 Tornados and departed for RAF Sculthorpe, England, where they operated between 1 June 1952 and 8 February 1955. Their mission was to provide allweather/night back-up to the nuclear canable F-84Fs flown by the B1st Fighter Bomber Wing stationed at RAF Bentwaters. In addition to C-47s, the 47th Operations Squadron operated at least two C-119s as base support aircraft. These were C-119C-70-FA, serial number 51-

8247 and sin 51-8258 On one occasion a R-45 had blown a main gear tire at a remote base resulting in the runway being shut down for several hours. A C-119 was dispatched from Sculthorpe with a spare wheel assembly. In the mean time the B-45 crew lacked their airplane. The C-119 landed and taxied up to the disabled Tornado and the wheel replacement was accomplished. The B-45 was then towed off the runway.

The C-119 markings were: nose - white with a black stripe: vertical fin - white truncated wedge edged in black: forward fuselage - large 47th BG insignia below cockpit with the black disk trailing a pair of long white wedges edged

STRATEGIC AIR COMMAND A number of SAC units operated C-119s as

base support aircraft. They were not known to have carried any unit markings. However, a SAC 'Milky Way' band was applied to the forward fuselage and the SAC insignia was placed on the left side over the band. In addition, there was one highly unusual

wing in SAC that operanded the C-119 for one

456th Troop Carrier Wing, Medium The 456th TCW was established on 15 October 1952, and activated at Miami International Airport. Florida, on 1 December of the same year when it gained the assets of the 435th TCW a Reserve unit. The 456th TCW was assigned to the Eighteenth Air Force between 1 December 1952 and 9 July 1956. The winn was attached to the 1st Air Division (Meteorological Survey). Strategic Air Command, between 22 April 1955 and 26 March 1956, and as such were the only troop carrier unit in SAC. Colonel James L. Daniel commanded the 456th TCW. The 456th TCW moved to Charleston AFB. SC. on 25 July 1953, and to Shiroi AB, Japan, for service between 10 November 1955 and 10 May 1956 Between 1952 and 1955, the 456th TCW narticipated in numerous tactical exercises both within the ZI and overseas, mostly in conjunction with Army airborne forces. On 1 May 1955. the wing was reorganized and the tactical group and all support components were inactivated. The wing then gained control over three squadrons and three squadron-sized detachments. The 456th TCW then participated in Prolect Drag Net, part of Project Grand Union, Each squadron was equipped with eight C-119s. Their mission was the recovery of balloonborne instrument packages. The 456th TCW returned to Ardmore AFB, Oklahoma, were it was inactivated between 25-Mexicand 9 July 1956. The wing's aircraft were dispersed to other units.

Colored hands around the nose identified.

the squadrons; while checks applied to the nose and ventral fins identified the detachments. Components of the 456th TCW were: 744th TCS Red, 745th TCS Green, 746th TCS Blue, Det 1 744th TCS Red/White, Det 1 745th TCS Green/White, Det 1 746th TCS Blue/White.

AIR DEFENSE COMMAND

As with SAC, a number of ADC units operated C-119s as base support aircraft. Their only distinguishing markings were ADC insignia applied to the outer surfaces of the vertical fins.

MILITARY AIR TRANSPORT SERVICE

Air Rescue Service

the Air Rescue Service operated C-82s. The aircraft were in natural metal fnish. The national insignia was applied to the top left and lower right outboard wing panels, and on the outboard surface of the booms. The 'CQ' buzz numbers were carried on both sides of the nose and on the lower left outboard wing panel. The upper surfaces of the inboard wing, to just outhoard of the nacelles and extending over the top of the fuselage, was painted grange-yellow and a six-inch-wide black stripe was added along the outboard edges of the markings. The word 'RESCUE' was applied in black, extending from inboard of the pacelles over the top of the fuselage. Either the last three digits of the tail number or the buzz number was applied under the word 'RESCUE' on top of the fuselage. The orange-yellow band was extended down along the fuselage sides and wrapped under the belly. This band too was edged with a six-inch-wide black band. 'AIR RESCUE SER-VICE', in black, was applied across the orangevellow fuselage band centered between the windows and the lower waterline of the fuselage, orange-yellow bands, 36-inches wide with six-inch-wide black stripes, was applied to the booms approximately three feet forward of the leading edge of the horizontal stabilizer. Some aircraft carried the MATS globe emblem on the booms forward of the orange-yellow bands. A small portion of the nose was also painted grange-vellow with a narrow black

Airways & Communications Service Several C-82s and C-119s were operated by

the Airways & Communications Service. These varieties ariserate were in neutral metal finish and usually carried the Insignia Red Arctic tim on the empenange and outboard wing panels. The MATS globe emblem was located on the MATS globe between the national niniginal booms half way between the national niniginal and the leading edge of the horizontal stall, some aircraft from the 1st AGS some aircraft from the 1st AGS installation and Maintenance Squadron had the unit insolina apoliel for the forward hexisten.

1739th Ferrying Squadron

Based at Amarillo AFB, Texas, the 1739th Ferrying Squadron was part of the MATS Continential Division. This unit was equipped with a hydroxy of its own aircraft including a pair of

Their markings were somewhat unique in that the entire upper half of the fuselage was painted white. An insignia blue cheat line was also applied. These colors extended diaganally from the forward winderreen across the tons of the two drop windows, down to the aircraft waterline that bisected the round portholes, 'U.S. AIR FORCE' was applied in the white area ahead of the red prop warning stripe. Along the lower fuselage beneath the wings were the words 'MILITARY AIR TRANSPORT SERVICE'. A MATS insignia was applied along the booms aft of the national insignia A typical MATS vallow-erload blue hand was applied to the outer surfaces of the vertical fins and rudders and the word 'CONTINENTAL' was inscribed in white within

Air Resupply and Communications Service Because of their clandestine mission, it is not believed that the C-119s assigned to the Air Resupply and Communications Service carried any unique markings.

United States Marines & Navy

The R4Q-1s operated by the Marines were in natural metal fnish. The national insignia was placed on the top left and lower right outboard wing panels and on the outboard surfaces of the booms. 'UNITED STATES MARINES' was applied in black to the fuselage sides between the window helt and hottom waterline of the aimlane. The unit designator. that is. 'VMR-253' was applied in black aft of the national insignia on the booms. R4Q-1 with the BuNo beneath were applied in black aft of the unit designator on the booms. The last three digits of the BuNo were generally applied in black on each side of the nose. A pair of distinguishing letters was applied to the vertical tails in black. The last three digits of the BuNo, followed by the two-letter unit designator, were applied to the top of the right wing upper surface in what was known as the MODEX identifier. These letters may be found

Anti-corrosive silver paint was subsequently applied to the aircraft and a white cap was added to the top of the fuselage with a black stripe at the bottom. Some time after the arrival of the R4Q-2s.

VMR-252 added an Insignia Yellow wing design that was bordered in black to the nose of the aircraft. In addition, a black-edged Insignia Yellow band was applied above the tail code on the outboard surfaces of the vertical By 1958, VMR-153 had added an Insignia Red wing design bordered in black to the nose of the aircraft. In addition, a black-edged Insignia Red band was applied above the tail code on the outboard surfaces of the vertical

By the early 1960s, the Marine R4Qs had added dayglo red conspisculty markings to the forward fuselage, outboard wing panets, and empennage.

empenage.

The first R4-OL, BuNo 124324, was delivered to the Naval Air Test Center at NAS Patamet. The first R4-OL Test Center at NAS Patamet New More and Pater Research Rese

Station aircraft assigned to operation and engineering units, repair squadrons, headquarters and maintenance equadrons, and the like, had the station name applied in block to the outboard surfaces of the vertical tails (see Appendix 4).

Belgian Air Force

15 Wing Lineage of the 15 Wing goes back to 169 Wing

that was formed at Evére. Belgum, on 1 Apri 1947. 366 and 367 Squadrons were assigned and equipped with Douglas C-478, Are Ansons, Hawker Siddeley Domnies, and Arspeed Oxfords. The Belgian Air Force underwent a general reorganization on 1 February 1948, and 169 Wing was redesignated 15 Wing, Its squadrons became 20 and 21 Smaldeel. 15 Wing was relocated to Metistroek in 1950.

15 Wing of the Belgian Air Force, stationed at Melsbrook. (Brussels) received their complement of 22 C-119Fs between 10 August 1953 and 20 March 1954. The two squadross equipped with the C-119s were 20 and 40 Smaldeel.

The airplanes were finished in an alumization point. Black, yellow, and red flashes we applied to the outboard surface of the welds in National resignary explaced the USAF six and bar markings on the booms and wigo. Squadron colors were applied in the horbstrain stripes on the doesal fins. Their colors are markings were. 25 Smaldeel, but her horbstrain stripes, OT-CAA thru OT-CAR. 49 Smaldor green horbstrain stripes, OT-CAA thru OT-CAR. 49 Through Carlon and Carlon and

40 Smaldeel was established on 1 Api 1954, but was disbanded two months list when it was deemed not to be economical to operate two squadrons. All of the C-119s were then operated by 20 Smaldeel.

The USAF's 322nd Air Division transferred an additional six C-119Gs to the Belgian Air Force during February 1958, to replace 18 C-119Fs that were returned to the United States for modification. Ten of these aircraft were seturned to the Belgian Air Force, while the remaining eight were transferred to the Norwegian Air Force. By July 1973, all C-119s were withdrawn from the inventory and renlaced by the Lockheed Hercules. In over 20 years of service with the Belgian Air Force, the C-119s had

Reazilian Air Force

Twelve C-82 Packets were acquired by the Force Aérea Brasileira in 1956. These were followed by 11 C-119s in the latter half of 1963. Markings applied to the Brazilian Air Force C-82s and C-119s consisted of their vellow. green, white, and blue star on the wings and booms, and yellow and green rudder trim.

Ethiopian Air Force

At least two C-119s, serial numbers 52-6047 and 52,6055 from the Norwanian Air Force went to the Ye Ityopus Aver Hayl (Imperial Ethiopian Air Force) in 1973. Both flight and ground crews from the Ethiopian Air Force received training from the 302nd TAW stafoned at Bakalar AFB, Indiana. Details on the aircraft markings are unknown.

France

l'Armée de l'Air - Détachement C-119 Pance's Armée de l'Air operated a number of

0119s between May 1953 and August 1964. during their war in Indochina. These airplanes were loaned by the USAF and operated both by French Air Force crews and Claire Chennault's Oil Air Transport. The Flying Boxcars were asigned to the Détachement C-119, and operand out of Hanoi-Gai Lam, Bach Mai,

Nichono-Cat Ri. and Tourane. The C-119s left Korea and transited Clark 48. Philippines, where the USAF insignia were sirted out and French roundels were applied bisting USAF serial numbers, unit markings,

indinose art were retained. ndian Air Force

119s entered the Bharatiya Vayu Sena (Indian (Force) inventory during 1954, and entered mice with No 12 Squadron, Additional airat were assigned to No 19 Squadron in July 60 followed by still more in May 1963. These gaft carried red, white, and green roundels tred, white, and green fin flashes, Indian Air Force serial numbers in black were carried aft of the roundels on the booms. A large black aircraft identification letter was usually applied to the forward fuselane. Some aircraft were painted with dayglo orange conspiscuity markings. The squadron insignia was carried on the

forward fuselage of some aircraft. Italian Air Force

The Aeronautica Militare Italiano (Italian Air Force) operated a total of 65 C-119s between 1965 and 1979.

46° Stormo

Beginning as a bomber unit, the 46° Stormo was established at Pisa, on 15 February 1940. After the Armistice of September 1943, the 46' Stormo became a transport unit operating in southern Italy. The unit was reconstituted at Centocelle (Rome) on 1 November 1948, and equipped with Savoia-Marchetti SM 70s and SM.82s, and Fiat G.12s. The unit relocated to Pisa in stages between July 1949 and July 1950

C-119s were introduced into the Italian Air Force beginning on 19 May 1953. The first two aimlance were turned over to the Italians at Ciampino (Rome) and they were ferried to their new base at San Guisto (Pisa). The 2º Gruppo became the first squadron to be equipped with the C-119s. A USAF training unit was in place there to assist with the transition of the 46'

Stormo

The airplanes were finished in aluminized paint. USAF national insignia were removed and replaced by the Italian roundel. Codes for the 46° Stormo were applied to either side of the roundel: for example, 46 @ 2 on airplane serial number 51-17366. The USAF serial numbers were retained on the vertical fins. Squadron colors were applied to the nose: 2º Gruppo/Bed 50° Gruppo/Yellow, 98° Gruppo/Green. On 16 April 1954, the 46° Stormo was redes-

ignated the 46° Aerobrigata Transporti Medi (Medium Transport Brigade). At this time, the the Lupo (wolf) insignia for 98° Gruppo were combined to form a new unit insignia that was 50° Gruppo was formed in late 1960 when

the first C-119Js came into the inventory. This unit was the first to transition into the Lockheed Hercules on 27 March 1972 Initially, the Italian C-119s were in the natural

metal fnish. In 1963, the C-119Gs received a camouflaged scheme. The C-119Js followed in 1965. A green-gray paint was applied. An irregular pattern of dark gray and dark green were applied to the upper surfaces, while the bottom was a metallic gray, dayglo orange flater vellow) bands were applied to the nose, wingtips. and booms. Smaller USAF-style serial numbers were applied to the fins with an 'MM' prefix. standing for Matricola Militaire or military sprial. While the nose colors remained for each squadron, the codes were changed to provide squadron identity as follows: 2º Gruppo 46-20 thru 46-39, 50° Gruppo 46-50 thru 46-69, 98° Gruppo 46-80 thru 46-99

Two C-119s entered the VIP role pending delivery of the DC-9. These airplanes were coded 46-62 and 46-68.

14º Stormo

Three C-119s were also converted for use by the 71° Gruppo, 14° Stormo, in the ECM role The first airplane, 46.63, had antennes added to the fuselage sides and belly. Airplanes 46-30 and 46.35 had antennas added heneath the nose and below the forward fuselane.

Republic of China Air Force

A total of 16 C-119s were delivered to the Chung-Kou Kung Chaun (Banublic of China Air Force [RoCAFI] on Taiwan in 1956 and replaced by 18 C-119Ls in 1959. During the 1960s and 1970s, 120 C-119s were diverted to Originally, these aimlanes were finished in

natural metal and carried the blue and white 12pointed Chinese star on the wings and booms. and 12 blue and white rudder stripes. These strines represent two hour intervals throughout the day. USAF serial numbers were retained.

Subsequently, standard USAF camouflage. consisting of Olive Drah (ES 24102) Dark Green (ES 34079), and Tan (ES 30219) over Camouflage Gray (FS 36622) was applied. White 24in-high numerals were applied to the nose. Unit insignia were carried on both the nose and fins - the squadron insignia was applied aft of the drop windows on the nose while the group insignia was carried on the outboard surfaces of the vertical fins. The controlling unit for the RoCAF C-119s was the 6th Troop Carrier & Antisubmarine Combined Wing (TC&ASCW) based at Pingtung The transports were assigned to the 10th Transport Group. In addition to the individual squadron insignia on the nose, each squadron carried a colored stripe painted beneath the cockoit windows: 101 Sqn/Yellow, 102 Sqn/Red, 103

The first to transition into C-130s during 1986 was 101 Squadron. Next, to phase out the C-119s, was 102 Squadron, and lastly No 103 Squadron.

Son/Blue

Royal Canadian Air Force

The Royal Canadian Air Force purchased 35 C-119Fs directly from Fairchild in 1964. They were operated by 408, 435, and 436 Squadrons, and the 104 Composite Unit. RCAF markings consisted of the Maple leaf

roundel applied to the boogs, and wings; red Fairchild #1824 & (140 o 17)

Royal Canadian Air Force C-119F 22133 is loaded with equipment at North Luffenham, England, as part of the 1 Fighter Wing move to Marville, France on 13 January 1955.

and white lightning bolt applied to the fuselage, and black serial numbers on the firs. For a period, unit codes were carried on the booms. During activation for UN peacekeeping operations, the roundels were replaced by the UN wreath, and 'ROYAL CANADIAN AIR FORCE' on the fuselage was replaced by "UNITED NATIONS".

Royal Hellenic Air Force

While the 514th TCW, stationed at McGuire AFB, New Jersey, provided C-119 training for both aircrews and maintenance technicians of the Royal Hellenic Air Force between 10 August and 18 December 1967, there is no indication that an MDAP aircraft transfer actually was consummated.

Royal Jordanian Air Force

Members of the Al Quowelf af-Jewwiye af-Melakiya af-Urduniya (Royal Jordanian Air Force) are known to have been given instruction in the C-119 by the 302nd TAW at Bakalar AFB, Indiana, in 1973. Apparently four C-119Ks were operated by Jordan between 1972 and 1977. Details on any aircraft transferred to that nation are unknown.

Royal Moroccan Air Force

The Al Curwat al-Isway's af-Matakiya Marakishiya (Royal Moroccan Air Force) was founded on 19 November 1956. First three, followed by an additional ten C-198F/Gs were delivered to Morocco during the 1962-1963 and 1966 time frames and operated by the 1st Air Transport Squadron.

These aircraft were painted in a desert scheme of irregular patterns of desert tan and black over carnouflage gray. It is suspected that some of these aircraft were RC-11se that were equipped with a camera pallet mounted in the aft fuselage. For this reconnaissance mission, the aircraft would have been operated with the clamshell doors removed.

Royal Norwegian Air Force

The Kongelige Norske Flyvapen (Royal Norwegian Air Force) operated eight C-119Gs between 1996 and 1999



No 335 Squadron

The primary transport unit within the Royal Norwegian Air Force was No 335 Squadron. It had its origins with the No 20 Training Flight in May 1945, when it operated Douglas C-47s. In November 1945, No 335 Squadron was established.

C-119s for the Royal Norweglan Air Force came by way of the Belgian Air Force. All eight of their C-119s were operated by No.35 Squadron. These airplanes were silver with dayglo orange applied to the nose, wingtips, and booms. The codes straddled the boom roundels; that is, BW \(\Phi \) An the right and \(A \) \(\Phi \) Wo on the II of II

The Lockheed Hercules replaced the C-119 as Norway's primary transport during May and June 1969. During 13 years of service in Norway, the C-119s had flown 37.584 hours.

Republic of Vietnam Air Force

Four squadrons of the Armée de l'Alv Vietnamireme (Republic of Veteram Air Force) (PMAFI) operated the C-119a between 1968 and 1975. Because of the operational limitations of these airplanes (that is, poor short feld and rough thip capabilities) the airplanes were based at 1 am Son Nitut where they enjoyed the louvry of high gof well-propered curvays. The aircraft were painted in standard USAF Southeast Asia VMAFF.

53rd Tactical Wing The 53rd Tactical Wing was in place at Tan Son Nhut when the first C-119s were assigned. 413th Tactical Squadron
The letter 'N' was carried on the tails of their
C-119Gs. The unit was activated in January
1963 and equipped with C-47s. The unit was reequipped with C-119Gs in January 1998. Their

were named the Red Dragons.

720th Reconnaissance Squadron
The unit was activated in December 1972 and

equipped with RC-119s for use in maritime patrol. Because of the lack of mission equiment, these airplanes were operated in the transport role. No known distinctive markings were applied to these airplanes.

819th Combat Squadron
The letters "HR" were carried on the tails of thei
AC-119Gs. The unit was activated in September 1971. They were named the Black Dragons.

821st Combat Squadron
The letter 'F' was carried on the tails of their
AC-119Ks. The unit was activated in December
1972. A detachment also operated out of Dit
Nang. They were named the White Dragos.

Vietnamese People's Army Air Force

The Khong Quan Nhan Dan (Vietnamese People's Army Air Force) operated at less \$8 opported C-1195 and 1988. The aircraft retained the Southeast Asia canor flage and the US tail numbers. A red flag with yellow star was applied to the outboard vetos

surfaces above the tail numbers.

The aircraft were flown by the 918th Air ansport Regiment.

by alfetta (2007)

Production and Mishap Data

liroraft	No Built	Air Force Letter Contract	Contract Date
D82	1	W33-038-AC30435	6 Aug 1942
AFASA FA	90	W33-038-AC124	28 Sep 1943
J82A-FA	100	W33-038-AC124	28 May 1945
AFASA FA	20	W33-038-AC124	30 Mar 1948
283N-NT	3	W33-038-AC7179	19 Dec 1944
IC-828-FA	1*		
C119A	15.	W33-038-AC124	28 May 1945
2119B-FA	36	W33-038-AC19200	4 Mar 1948
1198 Static Test Article	1	W33-038-AC19200	4 Mar 1948
01198-FA	99	W33-038-AC19200	4 Mar 1948
D119C-FA	53	W33-038-AC19200	22 Nov 1949
D119C-FA	128	W33-038-AC19200	23 Dec 1949
D119C-FA	41	AF(33)-18499	2 Oct 1951
C-119D	0	CANCELLED	
0.119E	0	CANCELLED	
C119F-FA	1	W33-038-AC19200	23 Dec 1949
C119F-FA	53	W33-038-AC19200	23 Dec 1949
C119-FA	80	W33-038-AC19200	30 Jun 1951
C119F-FA	85	AF(33)-18499	2 Oct 1951
D119G-FA	45	AF(33)-18499	2 Oct 1951
C-119F-WR	71	AF(33)-18481	16 May 1952
0119G-FA	177	AF(33)-18499	13 Oct 1962
C119G-FA	87	AF(33)-22285	22 Aug 1952
0119G-FA	2	AF(33)-18499	29 Dec 1952
C-119G-KM	88	AF(33)-16021	23 Aug 1954
0119G-FA	87	AF(33)-22285	22 Aug 1953
AC-119G	261	Sustaining Funds	

39 58 *C42A Conversion; † C-119G Conversion; ‡ C-119F/G Conversion

10:120-FA

B40-1 (C-119C)

M02 IC-119F)

Not Used 681

AF36/6001-2199

AF(33)-18499

AF(33)-18499

4 Mar 1948

26 Feb 1951

C-82 Mishan Statistics 1950-1955*

Year	Hours	Mishap Major Rate†	Fatal Mishap Rate	Destroyed Aircraft Rate	All Type Mishap Rate	Cost (\$)
1950	52,210	14/26.8	4/7.7	7/13.4	17/32.5	3,640,660
1951	45,808	15/32.7	3/6.5	4/8.7	19/41.5	2,053,687
1952	34.280	11/32.0	3/8.7	2/5.8	26/75.8	1,541,546
1953	9.384	4/42.6	0/0	1/10.6	4/42.6	491,829
1954	5,653	2/35.4	1/17.7	2/35.4	2/35.4	652,300
1955	1,003	0/0	0/0	0.0	0/0	0

Year	Hours	Mishap Major Rate†	Minor Mishap Rate	Fatal Mishap Rate	Destroyed Aircraft Rate	All Type Mishap Rate	Cost (\$)
1950	45,734	23/50.2		48.7	9/19.7	26/56.8	5,598,950
1951	83.250	28/33.6		6/7.2	89.6	38/45.6	5,883,447
1952	106,060	34/32.0		7/6.6	10/9.4	53/50.0	5.242.981
1953	198,327	30/15.1		6/3.0	12/6.1	64/32.3	10,163,414
1954	260,911	27/10.3		9/3.4	12/4.6	54/20.7	11,202,672
1955	331,713	25/7.5		7/2.1	17/5.1	40/12.1	
1956	344,296	1955		4/1.2	10/2.9	24/7.0	
1957	301,570	13/4.3		20.6	8/2.7	15/5.0	
1958	261,271	11/4.2		3/1.2	5/1.9	3/1.2	3,586,736
1959	208,374	1/14.1		2/0.5	3/1.0	5/1.9	1,841,845
1960	174.588	4/2.3		0.0	21.1	4/2.3	1,229,320
1961	164,553	6/3.6	1/0.6	2/1.2	3/1.8	7/4.3	1,671,185
1962	169,787	5/2.9	424	21.2	3/1.8	95.3	1,745,548
1963	158,719	5/3.2	1/0.6	0.0	53.2	6/3.8	
1964	158,270	3/1.9	1/0.6	21.3	53.2	425	
1965	164,882	212	2/1.2	1/0.6	212	424	
1966	111,853	7/6.3	0/0	3/2.7	65.4	7.6.3	
1967	87,068	0.0	1/1.2	0/0	0.0	1/1.2	
1968	78,605	2/2.5	0.0	2/2.5	225	2/2.5	
1969	84,801	2/2.4	0/0	1/1.2	1/1.2	2/2.4	
1970	67,525	3/4.4	0/0	2/3.0	3/4.4	3/3.4	
1971	44,512	0.0	0/0	0.0	0.0	0/0	
1972	26.019	1/3.8	0/0	1/3.8	1/3.8	1/3.8	

6.983 3.355

† Mishap rates are based on 100,000 flying hours, that is, 14 x 100,000 = 26.8 rate

C-82 & C-119 Block Numbers and Serial Numbers

Model Series	Serial Numbers	No Built	Model/Series	Serial Numbers	No Built
XC-82-FA	43-13202	1	C-119C-23-FA	51-2557/51-2584	28
C-82A-1-FA	44-22959/44-22968	10	YC-119H-FA	51-2585	1*
C-82A-5-FA	44-22969/44-22968	20	C-119C-25-FA†	51-2587/51-2617	31
C-82A-10-FA	44-22989/44-23003	15	C-119C-26-FA†	51-2618/51-2661	44
C-82A-15-FA	44-23004/44-23018	15		51-2662-51-2667	6
C-82A-20-FA	44-23019/44-23033	15	C-119F-FA†	51-2668/51-2686	19
C-82A-25-FA	44-23034/44-23048	15		51-2687-51-2689	Cancelled
C-82A-30-FA	44-23049/44-23058	10		51-2690-51-2707	18\$
C-82A-FA	45-57733/45-57832	100		51-2707/51-2717	10
C-89A-FA	48-0568/48-0587	20		51-7968/51/51-8052	85
XC-82B-FA	45-57769	1*		51-17365/51-17367	3‡
C-R2N-NT	45-25436/45-25438	3	C-119F-WR1	51-8096/51-8168	71
C-82N-NT	45-25439/45-26435	Cancelled	C-119F-KM	22101/22135§	35
			C-119C-70-FA†	51-8233/51-8273	41
XC-119A-FA	45-57769	1*	C-119G-FA†	51-8053/51-8097	45
C-119B-FA	48-319/48-329	11		52-5840-52-5954	115
XC-120-FA	48-330	1		52-5955-52-5954	Cancelled
C-119B-FA	48-331/48-355	25	C-119G-35-FA	52-6000-52-6058	59‡
C-119B-10-FA	49-101/49-109	9		52-9981/52-9982	2
C-119B-12-FA	49-110/49-118	9	C-119G-36-FA	53-3136-53-3222	87
C-119C-12-FA	49-119/49-124	6		53-4637/53-4662	26‡
C-119C-13-FA	49-125/49-139	15		53-7826/53-7884	59
C-119C-14-FA	49-140/49-154	15	C-119G-84-KM	53-8069/53-8156	88
C-119C-15-FA	49-155/49-169	15			
C-119C-16-FA	49-170/49-184	15		earlier series; † C-119CF-FAs essentially I	
C-119C-17-FA	49-185/49-199	15		‡ Purchased directly by the Canadian gov	
C-119C-18-FA	50-119/50-131	13		KM; I Purchased directly by the Indian of	government and given WF
C-119C-19-FA	50-132/50-146	15	serials IK441 through	K466.	
C-119C-20-FA	50-147/50-161	15	Manufacturer codes:		

FA .: Fairrhild KM .: Kaiser, and NT .: North American. WR - Willys, Willow Run became KM for Kaiser.

BuNo 131662/131719

50-162/50-171

51-2532/51-2556

C-119C-21-FA

C-119C-22-FA

Major Cor	nversions				
Model Series	Serial Numbers No	Built	Model/Series	Serial Numbers	No
AC-119G-FA AC-119K	\$2-009, \$2-092, \$2-0996, \$2-0905, \$2-0907, \$2-0907, \$2-0908, \$2-0902, \$2-0908, \$2-0908, \$3-09	26	C-119L	\$2.5884, \$2.5886 \$3.318, \$3.53186, \$3.3193, \$3.3206, \$3.2216, \$3.7848, \$5.7853, \$7.985, \$3.7986, \$3.9073, \$5.9074, \$5.9076, \$5.9083, \$3.9084, \$3.9087, \$3.9126, \$3.9127, \$3.9142, \$5.9149, \$5.9150, \$3.9153, \$3.9154 \$3.3190, \$3.3181	
C-119K YC-119K	53-7831, 53-7839, 53-7850, 53-7854, 53-7877, 53-7879, 53-7883, 53-6121, 53-6145, 53-6148 52-5802, 53-3142, 53-3160, 53-8180, 53-3188 53-3142	26 5 1	USMC R4	Q-1 (C-119C) & R4Q-2 (C-119F)	
C-119J	51-7968, 51-8030, 51-81035;51-8143, 51-8145;51-8046, 51-8049;51-8052, 51-81134;18116, 51-8119, 51-8121;51-8132, 51-8134, 51-8137;51-8138,		Model/Series	Serial Numbers	No S
	51-814()51-814(, 51-814, 51-8152(51-8154, 51-8154, 51-8154)51-8164(51-8165, 51-8164)51-8164(51-8165, 51-8154)51-8164(51-8165, 51-8154)51-8164(51-8165, 51-8165, 51-8165)52-5884(52-5895, 52-5896, 52-5896, 52-5897, 52-5895		R4Q-1 R4Q-1 R4Q-1	BuNo 124324/124331 BuNo 126574/126562 BuNo 128723/128744	

67 R4Q-2

53-8089, 53-8101, 53-8103

C-82 Packet Units

Group Sqn	Color	Base					
	Color		Dates	Unit		Base	Dates
60th TOG - 10th TOC	Red	Wesbaden AB, West Germany Rhein-Main AB, West Germany	1949-1949	1st ARS		Albrook AFB, Canal Zone	1949-196
-11th TCS -12th TCS	Green Blue	Wiesbaden AB, West Germany Rhein-Main AB, West Germany	1949-1950 1950-1953	4th ARS - B Flight, 4th ARS		Hamilton AFB, CA March AFB, CA	1949-195
61st TOS -80th TOG (Attach	ed)	Phein-Main AB, West Germany	1949-1951	5th ARS - D Flight, 5th ARS		MacDill AFB, FL Westover AFB, MA	1947-194 1951-195
				6th ARS		Westover AFB, MA Pepperell AFB, Newfoundland	1949-195 1951-195
				7th ARS		Wheelus AB, Libya	1951-1953
				9th ARS		Bushy Park, England	1951-195
				9th ARS, Flight D		Wheelus AB, Libya	-1951
Tactical Air C				41st ARS		Hamilton AFB, CA	1952-195
				48th ARS		Egin AFB, FL	1952-195
Group Sqn	Color	Base	Dates	58th ARS		Wheelus AB, Libya	1952-
62nd TCG -4th TCS	Red Yellow	Bergstrom AFB, TX McChord AFB, WA	1947-1948 1948-1950	59th ARS			
-7th TCS				66th ARS		RAF Manston, England	1952-195
- 8m TCS	Blue			2151st Rescue Unit		Lowry AFB, CO	1948-194
HATH TOG 17th TOS 18th TOS 38th TOS		Donaldson AFB, SC	1952-1953	2158th ARS		MacDill AFB, FL Palm Beach Airport, FL	1950-195 1951-195
309nd TCS 309th TCS 309th TCS		McChard AFB, WA	1949-1951				
13h TCG 29h TCS 47h TCS	Red Green	Bergstrom AFB, TX	1947-1948	Miscellaneous	USAF Un	its	
H4th TCG		Smyrna AFB, TN	1947-1949	Unit/Sqn	Color	Base	Dates
20th TCS (Det) 50th TCS		(Rhein-Main AB, West Germany)	-1948	1st ACCS I&M Sqn		Tinker AFB, OK	1953-1954
Etis TCS RENd TCS 334h TCS HBh TCG	Red Green Blue	Pope Field, NC	1946-1947	57th Fighter Wing -4th TCS (Attached) -7th TCS (Attached) -7th TCS (Attached) -37th TCS (Attached)	Red Yellow Blue Yellow	Elmendorf AFB, AK	1948-1950 1948-1949 1949-1949 1948-1949 1948-1950
38h TCS		Greenville AAB, SC Smyrna AFB, TN	1947-1949 1949-1950	55th SRW (SAC) - 7th Geodetic Sqn	Green	Ramey AFB, PR	1949
STH TOS TSH TOS TTH TOS				91st SRW (SAC) - Base Flight		Barksdale AFB, LA Lockbourne AFB, OH	1949-1951 1961-1952
ISh TCG ISh TCS		Greenville AFB, SC	1950-1952	92nd BW (SAC) - Base Flight		Fairchild AFB, WA	
9th TCS				1455th Air Force Base Unit (ATC)		Great Falls AFR MT	1947-1948

United States C-119 Units

Unit	San Color	Rase	Dates	- 309th TCS - 310th TCS				
	oqn Color			- 310th TCS - 343rd TCS				
60th TCG	Rhein-Main AB, West Germany		463rd TCW				1963-19	
- 10th TCS - 11th TCS - 12th TCS	Red Green Blue		- 772nd TCS - 773nd TCS		Red Yellow	Ardmore AFB, OK	1963-19	
61st TCW *		Rhein-Main AB, West Germany	1950-1950	- 774th TCS - 775th TCS	Green			
63rd TCW - 64th TCS (Attached)		Donaldson AFB, SC	1953-1954	464th TCW		Lawson AFB, GA Pope AFB, NC		1953-19
64th TCG - 17th TCS - 18th TCS - 35th TCS		Donaldson AFB, SC	1953-1954	- 778th TCS - 777th TCS - 778th TCS - 779th TCS	Red Blue Green Yellow	rupe AFB, NO		
313h TCG - 29th TCS - 47th TCS - 48th TCS	Red Green Blue	Mitchel AFB, NY Sewart AFB, TN	1953-1953 1953-1955	465th TCW - 780th TCS - 781st TCS - 782nd TCS	Red Blue Green	Mitchel AFB, NY Toul-Rosières AB, Evreux-Fauville AB		1953-19 1954-19 1955-19
314th TCGt - 50th TCS - 61st TCS - 62nd TCS - 37th TCS (Attached)	Red/White Green/White Blue/White Yellow	Ashiya AB, Japan Komaki AB, Japan Ashiya AB, Japan Ashiya AB, Japan Sewan AFB, TN	1960-1964 1960-1960 1960-1960 1960-1962 1962-1964	- 37th TCS (Attached) - 75th TCS (Attached) - Détachement C-119 /Amée de / Ar (Attached) - Det 772nd TCS (Attached) - 815th TCS (Attached) - 816th TCS (Attached)	Red White Blue White Green White	Ashiya AB, Japan Tachikawa AB, Ja Naha AB, Japan Kisanazu AB, Japan Ashiya AB, Japan Ashiya AB, Japan		1951-19 1956-19 1957-19 1958-19 1956-19 1956-19
316h TCW - 316h TCG - 316h TCG - 36h TCS - 37h TCS - 75h TCS 317h TCG	Red/White Blue/White Green/White	Sewart AFB, TN Sewart AFB, TN Ashiya AB, Jupan Detached 1950-1952 Rhein-Main AB, West Germany	1952-1954 1952-1954 1954-1955		Red.White† Green/White† Blue/White†	Ashiya AB, Japan Ashiya AB, Japan Ashiya AB, Japan Ashiya AB, Japan Ashiya AB, Japan Ashiya AB, Japan Ashiya AB, Japan		1953-15 1958 1956-15 1956-15 1953-15 1954-15
- 39th TCS - 40th TCS	Yellow Black Red White	Neubibarg AB, West Germany Eineux-Fauville AB, France	1953-1957 1957-1958	Other Regular Air Fe	orce Troop	Carrier Units		
- 41st TCS	Blue/White			Unit	Base			Dates
374th TCW		Tachikawa AB, Japan Kisarazu AB, Japan	1966-1967 1966-1967	9th ABW (SAC)	Mountain Hor	ne AFB, ID		pirca 198
- 21st TCS (Attached)		Naha AB, Okinawa	1968-1969	28th ABW (SAC)	Ellsworth AFE	I, SD		pirca 196
433rd TOW - 433rd TOG		Rhein-Main AB, West Germany	1961-1962 AFRES	42nd TCS (Special)	Molesworth, I RAF Alconbu	orth, England onbury, England		1956-195 1957-195
- 67th TCS - 68th TCS - 69th TCS			activated during Korean War	47th BW (L) - 47th ABG	RAF Sculthon	horpe, England		1952-196
- tern IUS			nuredii Wali	53rd FG (ADC	Sioux City AF	B, IA		pirca 195
				67th TRW	Yokota AB, Ja			1957-195
180 Fairchild C-82 8	S C-119					1	canned y lfetta (2	007)

322nd AD	Evreux-Fauxille AB, France Dreux AB, France	1954-1958 1958-1960	960 and 817th TCSs. The har 960 Red Barons, Green Home 960 314th TCG squadrons ret 960 were gained by the 483rd	
- 10th TCS		1958-1960		
- 11th TCS - 12th TCS		1958-1960 1958-1960		
- 60th TCW (Attached)	Dreux AB. France	1954-1965	changed. The 817	th changed to
- 60th TCW	Dreux AB, France	1955-1958	It should be noted to	hat the LISAE
- 317th TCW (Attached)	Evreux-Fauville AB, France	1954-1955	operating unit went	
- 317th TCW	Toul-Rosières AB, France	1955-1958 1954-1955	to the new wing an	
- 465th TCW (Attached)	Evreux-Fauville AB, France	1954-1955	ignation had been a bet support airplan	
- 465th TCW		1955-1957	an operational wing	
322nd TCS (Special)	Kadena AB, Okinawa	1956-1957	bases and assigner as combat support	to the air ba
328th FG (ADC)	Grandview AFB, MO (Renamed Richards-Gebaur AFB)	circa 1957	as compar support	arciat lor va
405th FBW	Langley AFB, VA	1954-1956	Air Force Re	serve Un
421st ARS	Yokota AB, Japan	circa 1960	Unit	Group/S
S21st ADFG	Sioux City AFB, IA	circa 1956	94th TCW (M)	94th TO
568th ADFG	Hamilton AFB, CA	circa 1956		901st TC
580th ARSICS	Mountain Home AFB, ID Wheelus Field, Libya	1951-1952 1953-1956		- 731st
SE1st AR&CS	Mountain Home AFB. ID	1951-1962	302nd TCW (M)	908th T0
	Clark AB. Philippines	1952-1953		907th TC
	Anderson AFB, Guam	1953-1956		- 356th 1
582nd AR&CS	Mountain Home AFB, ID	1951-1953		908th TC
	Great Falls AFB, MT	1953-1953		- 357th 1 910th TC - 757th 1 912th TC
	RAF Molesworth, England	1953-1956		
1799th FrySqn (MATS)	Amarilio AFB, TX	1962-1965		
2578th ABS	Ellington AFB, TX	circa 1966		- 326th 1
3045th TTW	Charute AFB, IL	circa 1957	349th TCW (M)	
3415th TTW	Lowry AFB, CO	circa 1956		939th TO - 313th T
3499th TTW (Mobile)				940th TO
3560th PTW	Webb AFB, TX	circa 1956		- 314th T 941st TC
\$750th TTW	Sheppard AFB, TX	circa 1955		- 97th T0
3919th ABG	RAF Fairford, England	circa 1955		941st TC - 97th T0
With ADG (ADC)	Langley AFB, VA	circa 1960	375th TCW	375th TC
4800h ABW (ADC)	Peterson AFB, CO	circa 1959	oraci i Off	- 55th T0
4750th ADPW	Yuma AFB, AZ	circa 1957		- 56th T0
4758h ADPW	Tyndall AFB, FL	circa 1958	403rd TCW (M)	403rd TO
400h ABG (AFCS)	Kirdand AFB, NM	circa 1956	-000 (III)	
SIGNE ATS	Elmendorf AFB, AK	1955-1957		
Bloom ASG	Yokota AB, Japan	circa 1958		927th TO
(Blath TG (AFSC)	Hickam AFB, HI	1958-1962		- 63rd T0
safers was located at Rh 15h, and 53rd TCSs) were	In the outbreak of the Korean War. The 61st ein-Main AB, West Germany, and its compo- equipped with C-47s and C-54s. The 61st TDI gan in August 1950. However, with the exige	nent squadrons (14th, V was to re-equip with	433rd TCW (M)	

1957,1957

riena 1056

89h FRM

90ml ARW (SAC)

SOM ARM ISACI

97th ABW (SAC)

Castle AFB, CAcirca 1956

Dyess AFB, TX circa 1956

ontinued to identify themselves as groups even after the wing des-A number of miscellaneous units also operated the C-119 as a compart of the base flight unit providing training and utility transport for sted as many as 50 C-119s, sprinkled by ones and twos, at various ase group that supported the wing. A number of C-119s also served arious air defense, tactical bombardment, and tactical fighter units.

Unit	Group/Sqn	Base	Dates
94th TCW (M)		Hansoom AFB, MA	1957-1966
	94th TCG	Hansoom AFB, MA	1957-1959
	901st TCG	Hansoom AFB, MA	1963-1966
	- 731st TCS	Hansoom AFB, MA	1953-1966
302nd TCW (M)	906th TCG	Clinton Co AFB, OH	1956-1963
	- 335th TCS	Lockbourne AFB, OH	1963-1973
	907th TCG	Lockbourne AFB, OH	1963-1973
	- 356th TCS	Lockbourne AFB, OH	1963-1973
	908th TCG	Bates Field, AL	1963-1964
		Brookley AFB, AL	1964-1969
	- 357th TCS	Brookley AFB, AL	1964-1969
	910th TOG	Youngstown Apt, OH	1966-1969
	- 757th TCS	Youngstown Apt, OH	1966-1969
	912th TOG	NAS Willow Grove, PA	1965-1966
	- 326th TCS	NAS Willow Grove, PA	1965-1966
349th TCW (M)		Hamilton AFB, CA	1963-1968
	939th TCG	Portland Apt, OR	1963-1968
	- 313th TCS	Portland Apt, OR	1963-1965
	940th TCG	McClellan AFB, CA	1963-1968
	- 314th TCS	McClellan AFB, CA	1963-1968
	941st TCG	Paine AFB, WA	1963-1965
	- 97th TCS	Paine AFB, WA	1963-1965
	941st TCG	McChard AFB, WA	1965-1968
	- 97th TCS	McChord AFB, WA	1965-1968
375th TCW	375th TCG - 55th TCS - 56th TCS - 57th TCS	Greater Pittsburgh Apt, PA	1962-1967
403rd TCW (M)	403rd TCG	Portland Apt, OR	1952
		Ashiya AB, Japan	1952-1953
		(Activated for Korea)	
		Portland Apt, OR	1957-1963
	927th TOG	Selfridge AFB, MI	1963-1970

Greenville AFB, SC

(Activated for Korea) Brooks AFB, TX

Kelly AFB, TX

conflict in Korea, the wing's primary operating unit, the 61st TCG, with its C-54s, was redeployed to McChord AFB, Washington, in July, and by December 1950, while the wing and its compo-

† The three souadrons from the 314th TCG; 50th, 61st, and 62nd, were transferred back to the ZI

to reioin their parent wing in 1954: however, the assets were retained at Ashiva AS, Janan, and gained by the 483rd TCW. The new squadrons assigned to the 483rd TCW were the 815th. 816th.

the 50th/R15th TCS, 61st/816th TCS, and 62nd/817th TCS were d Blue Barons, respectively. Their colors matched their names. The

their name from Red Barons to Sky Runners on their dorsal fillets.

Funderwent a major reorganization in the early 1990s and the basin a group to a wing. For some period the groups were still assigned

nent squadrons were based at Ashiva AR Japan.

1963-1970

1950-1952

	433rd TOG	Brooks AFB, TX	1955-1959	452nd TCW (M)	452nd TOG	Long Beach Apt, CA March AFB, CA	1958-19
	- 67th TCS	Brooks AFB, TX	1957-1960			March AFB, CA March AFB, CA	
	- 68th TCS	Brooks AFB, TX	1957-1962		- 728th TCS		1958-19
	916th TCG	Carswell AFB, TX	1963-1971		- 729th TCS	March AFB, CA	1958-19
	- 77th TCS	Carswell AFB, TX	1963-1971		- 730th TCS	March AFB, CA	1962-19
	921st TCG	Kelly AFB, TX	1962-1971		943rd TOG	March AFB, CA	1963-19
	- 67th TCS	Kelly AFB, TX	1960-1971		- 729th TCS	March AFB, CA	1963-19
	922nd TCG	Kelly AFB, TX	1962-1971		944th TCG	March AFB, CA	1963-19
	- 68th TCS	Kelly AFB, TX	1962-1971		- 928th TCS	March AFB, CA	1962-19
	923rd TCG	Carswell AFB, TX	1963-1965		- 929th TCS	March AFB, CA	1962-19
	- 69th TCS	Carswell AFB, TX	1963-1969		- 930th TCS	March AFB, CA	1962-19
s34th TCW (M)	930th TOG	Atterbury/Bakalar AFB, IN	1957-1969		945th TCG - 733rd TCS	HII AFB, UT HII AFB, UT	1962-19
	990th TCG	Bakalar AFB, IN Lockbourne AFB, OH	1963-1968	459th TCW (M)	1000100	Andrews AFB, MD	1957-19
	90001100	Bakalar AFB, IN	1969-1969	Appel 10th fat	459th TCG	Andrews AFB, MD	1957-19
	- 71st TCS	Lockbourne AFB. OH	1963-1968		909th TCG	Andrews AFB, MD	1962-19
	- 7181100	Bakalar AFB, IN	1969-1969		- 756th TCS	Andrews AFB, MD	1957-19
	931st TCG	Bakalar AFB, IN	1963-1969		910th TCG	Youngstown Apt OH	1963-19
	- 72nd TCS	Bakalar AFB, IN	1963-1969		- 757th TCS	Youngstown Apt OH	1963-19
		Soot AFB. IL	1957-1969		911th TOG	Greater Pittsburgh Apt. PA	1963-19
	932nd TCG - 73rd TCS	Scott AFB, IL. Scott AFB, IL.	1963-1969		- 758th TCS	Greater Pittsburgh Apt, PA	1963-19
					482th TCG	Dobbins AFB, GA	1957-19
435th TCW (M)	439th TCG	Miami Apt, FL Homestead AFB, FL	1951-1952 1952-1957	482nd TCW (M)		NAS Willow Grove, PA	1963-19
	917th TCG	Barksdale AFB, LA	1962-1965	512th TCW (M)	912th TCG - 326th TCS	NAS WILLOW GROVE, PA NAS WILLOW GROVE, PA	1963-19
	- 78th TCS	Barksdale AFB, LA	1961-1965				
sana TPM	4200 TOO	NAS New York, NY	1957-1957	514th TCW (M)	514th TOG	Mitchel AFB, NY	1954-19
136th TCW	436th TOG - 79th TCS	NAS New York, NY	1957-1957		903rd TCG	McGuire AFB, NJ	1961-19
	- 19th I/Co	NAS NEW TORK, NT	103111031		- 335th TCS	McGuire AFB, NJ	1961-19
437th TCW (M)	437th TOG	O'Hare Apt, IL	1957-1957		904th TCG	Stewart AFB, NY	1963-19
	- 83rd TCS	O'Hare Apt, IL	1957-1957		- 336th TCS	Stewart AFB, NY	1963-19
					905th TCG	Westover AFB, MA	1966-19
439th TCG (M)	439th TOG	Selfridge AFB, MI	1956-1957		- 337th TCS	Westover AFB, MA	1966-19
	- 93rd TCS				914th TCG	Nisgara Falls Apr., NY	1963-19
	- 94th TCS				- 328th TCS	Niagara Falls Apt, NY	1963-19
	- 472nd TCS			518th TCW (M)	516th TCG	Memohis Mun Act. TN	1952-196
440th TCW (M)	914th TOG		1963-1970 1969-1969 1969-1969	Sign for yet	01011100		
	- 328th TCS 933rd TCG	Gen Mitchell Field, WI Gen Mitchell Field, WI	1969-1969				
	950rd TCS - 95th TCS	Gen Mitchell Field, WI	1963-1970	Regular Air F	orce AC-119	Gunship Units	
	934th TCG	Minneapolis-St Paul Apt, MN	1963-1970	-		-	
	- 96th TCS	semespois-or rasings, sev	1963-1970	Unit	Code	Base England AER 1 A	Dates
442nd TCW (M)		Richards-Gebaur AFB, MO	1963-1970 1967-1967	1st ACW	Code	England AFB, LA	1968-19
442nd TCW (M)	442nd TOG	Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO	1963-1970 1967-1967 1967-1969	1st ACW 1st SOW			
H2nd TCW (M)	442nd TCG 939th TCG	Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO	1963-1970 1967-1967 1967-1969 1963-1967	1st ACW 1st SOW -71st SOS*	IC	England AFB, LA	1968-19
42nd TCW (M)	442nd TCG 935th TCG - 303rd TCS	Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO	1963-1970 1967-1967 1967-1969 1963-1967 1969-1967	1st ACW 1st SOW - 71st SOS* - 317th ACS/SOS*		England AFB, LA	1968-19
442nd TCW (M)	442nd TCG 939th TCG - 303nd TCS 998th TCG	Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Tinker AFB, OK	1963-1970 1967-1967 1967-1969 1963-1967 1963-1967 1963-1967	1st ACW 1st SOW -71st SOS*	IC	England AFB, LA	1968-19
142nd TCW (M)	442nd TCG 939th TCG - 303nd TCS 998th TCG - 304th TCS	Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Tinker AFB, OK Tinker AFB, OK	1963-1970 1957-1967 1957-1969 1963-1967 1969-1967 1963-1967 1969-1967	1st ACW 1st SOW - 71st SOS* - 317th ACS/SOS* - 415th SOS†	IC AH	England AFB, LA Hurburt Field, FL	1968-19 1969
42nd TCW (M)	442nd TCG 939h TCG - 309h TCS 938h TCG - 304h TCS 937h TCG	Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Tinker AFB, OK Tinker AFB, OK Tinker AFB, OK	1963-1970 1957-1967 1957-1969 1963-1967 1969-1967 1963-1967 1969-1967 1957-1967	1st ACW 1st SOW - 71st SOS* - 317th ACS/SOS*	IC	England AFB, LA	1968-19 1969
	442nd TCG 939th TCG - 303rd TCS 938th TCG - 304th TCS 937th TCG - 305th TCS	Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Tinker AFB, OK Tinker AFB, OK Tinker AFB, OK	1963-1970 1967-1967 1967-1969 1963-1967 1963-1967 1963-1967 1963-1967 1967-1967	1st ACW 1st SOW - 71st SOS* - 317th ACS/SOS* - 415th SOS† 4408th CCTS*	IC AH	England AFB, LA Hurburt Field, FL Lookbourne AFB, OH	1968-19 1969 1961-19 1969
	442nd TCG 939th TCG - 303nd TCS 939th TCG - 304th TCS 937th TCG - 309th TCS 443nd TCG	Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Trinker AFB, OK Trinker AFB, OK Trinker AFB, OK Donaldson AFB, SC	1963-1970 1967-1967 1967-1969 1963-1967 1963-1967 1963-1967 1969-1967 1967-1967 1962-1963	1st ACW 1st SOW -71st SOS* -317th ACS/SOS* -415th SOS† 4408th CCTS* - OL #11 14th SOW	IC AH IH	England AFB, LA Hurburt Field, FL Lookbourne AFB, OH Clinton County AFB, OH	1968-19 1969 1961-19 1968-19
	442nd TCG 939th TCG - 303rd TCS 938th TCG - 304th TCS 937th TCG - 305th TCS	Richards Gebaur AFB, MO Richards Gebaur AFB, MO Richards Gebaur AFB, MO Richards Gebaur AFB, MO Trisker AFB, OK Trisker AFB, OK Trisker AFB, OK Donaldson AFB, SC Donaldson AFB, SC	1963-1970 1967-1967 1967-1969 1963-1967 1969-1967 1969-1967 1969-1967 1967-1967 1962-1953 1962-1953	1st ACW 1st SOW -71st SOS* -317th ACS/SOS* -419th SOS† -409th CCTS* -OL #11 14th SOW -17th SOS*	IC AH IH	England AFB, LA Hurburt Field, FL Lookbourne AFB, OH Clinton County AFB, OH	1968-19 1969 1961-19 1968-19 1968-19
	442nd TCG 939th TCG - 303nd TCS 939th TCG - 304th TCS 937th TCG - 309th TCS 443nd TCG	Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Richards-Gebaur AFB, MO Trinker AFB, OK Trinker AFB, OK Trinker AFB, OK Donaldson AFB, SC	1963-1970 1967-1967 1967-1969 1963-1967 1963-1967 1963-1967 1969-1967 1967-1967 1962-1963	1st ACW 1st SOW -71st SOS* -317th ACS/SOS* -419th SOS† 4408th CCTS* - OL #11 14th SOW -17th SOS* -18th SOS*	IC AH IH	England AFB, LA Hurburt Field, FL Lookbourne AFB, OH Clinton County AFB, OH	1968-19 1969 1961-19 1968-19 1968-19 1968-19 1968-19
H3rd TCW (M)	442nd TCG 939th TCG - 303rd TCS 939th TCG - 304th TCS 937th TCG - 305th TCS 443rd TCG - 309th TCS	Richards Gebaur AFB, MO Richards Gebaur AFB, MO Richards Gebaur AFB, MO Richards Gebaur AFB, MO Trisker AFB, OK Trisker AFB, OK Trisker AFB, OK Donaldson AFB, SC Donaldson AFB, SC	1963-1970 1867-1967 1867-1869 1963-1967 1969-1967 1969-1967 1967-1967 1967-1967 1967-1967 1962-1953 1962-1953 1962-1953	1st ACW 1st SOW -71st SOS* -317th ACS/SOS* -419th SOS† -409th CCTS* - OL #11 14th SOW -17th SOS* -18th SOS* -71st SOS*	IC AH IH	England AFB, LA Hurlburt Reid, FL Leokbourne AFB, OH Olinton County AFB, OH Phan Rang AB, RvN	1968-19 1969 1969-196 1968-196 1968-196 1968-196
H3rd TCW (M)	442nd TCG 935h TCG - 303h TCS 936h TCG - 304h TCS 937h TCG - 305h TCS - 309h TCS - 319h TCS	Richards Gebaur AFB, MO Richards Gebaur AFB, MO Richards Gebaur AFB, MO Richards Gebaur AFB, MO Trisker AFB, OK Trisker AFB, OK Trisker AFB, OK Donaldson AFB, SC Donaldson AFB, SC	1963-1970 1967-1967 1967-1969 1963-1967 1969-1967 1969-1967 1969-1967 1967-1967 1967-1967 1962-1963 1962-1963 1962-1963	1st ACW 1st SOW - 7st SOS* - 317th ACSIGOS* - 415th SOS1 - 4408th CCTS* - 0.L #15 14th SOW - 17th SOS* - 18th SOS* - 18th SOS* - 7st SOS* - 24th SOW	IC AH IH EF‡ EH‡	England AFB, LA Hurburt Field, FL Lookbourne AFB, OH Clinton County AFB, OH	1969-19 1969 1961-19 1969-19 1968-19 1968-19 1968-19
H3rd TCW (M)	442nd TCG 989th TCG - 303rd TCS 989th TCG - 304th TCS 987th TCG - 309th TCS 443rd TCG - 309th TCS - 310th TCS	Richards-Gebaur AFB, MD Richards-Gebaur AFB, MD Richards-Gebaur AFB, MD Richards-Gebaur AFB, MD Thinker AFB, DD Thinker AFB, DD Thinker AFB, DD Donaldon AFB, SD Donaldon AFB, SD Donaldon AFB, SD Donaldon AFB, SD Donaldon AFB, SD Dobbins AFB, GA Marn Int Int Apt, FL Marn Int Int Apt, FL	1963-1970 1967-1967 1967-1969 1963-1967 1963-1967 1963-1967 1963-1967 1967-1967 1952-1963 1952-1953 1952-1953 1952-1953 1952-1953 1952-1953 1952-1953	1st ACW 1st SOW -7st SOS* -317th ACSSOS* -419th SOS\$ -4408th CCTS* -0, #15 14th SOS* -18th SOS*	IC AH IH EF‡ EH‡	England AFB, LA Hurburt Peld, PL Lockbourne AFB, CH Clinton County AFB, CH Phase Rang AB, RM Howard Field, Planama	1968-19 1969 1969-197 1969-197 1968-197 1968-197 1968-197 1968-197
H3rd TCW (M)	442nd TCG 999h TCG - 3094h TCS 908h TCG - 309h TCS 977h TCG - 309h TCS 443rd TCG - 309h TCS - 319h TCS 445h TCG 915h TCG - 98h TCS - 98h TCS	Richards-Gebour AFB, MO Richards-Gebour AFB, MO Richards-Gebour AFB, MO Richards-Gebour AFB, MO Richards-Gebour AFB, MO Triese AFB, OX Triese AFB, OX Triese AFB, OX Donatidon AFB, SC Donatidon AFB, SC Donatidon AFB, SC Dobbins AFB, GA Mam Intri Apt, FL Mam Intri Apt, FL Mam Intri Apt, FL Mam Intri Apt, FL	1963-1970 1967-1967 1967-1969 1963-1967 1969-1967 1969-1967 1967-1967 1967-1967 1962-1963 1962-1963 1962-1963 1965-1966 1965-1966	1st ACW 1st SOW - 7st SOS' - 317th ACSISOS' - 317th ACSISOS' - 415th SOST - 4408th CCTS' - OL #11 14th SOW - 17th SOS' - 18th SOS' - 7st SOS' - 24th SOW - (Various rotations 58th SOW	IC AH IH EF‡ EH‡	England AFB, LA Hurlburt Reid, FL Leokbourne AFB, OH Olinton County AFB, OH Phan Rang AB, RvN	1968-19 1969 1969-197 1969-197 1968-197 1968-197 1968-197 1968-197
H3rd TCW (M)	442nd TOG 999h TCG - 309n TCS 999h TCG - 309h TCS - 309h TCS - 309h TCS - 309h TCS - 309h TCS - 309h TCS - 319h TCS - 399h TCS - 399h TCS - 399h TCS - 399h TCS	Richards-Gebaur AFB, MO Richards-Gebaur AFR, MO Richards-Gebaur AFR, MO Richards-Gebaur AFR, MO Triller AFB, CM Triller AFB, CM Triller AFB, CM Triller AFB, CM Triller AFB, CM Dosaldson AFB, SC Dosaldson AFB, SC Dosaldson AFB, SC Dosbins AFB, GA Mam int FI Apt, FL Dobbins AFB, GA Mam int FI Apt, FL Dobbins AFB, GA Dobbins AFB, GA Dobbins AFB, GA	1963-1970 1967-1967 1967-1969 1963-1967 1969-1967 1967-1967 1967-1967 1967-1967 1962-1963 1962-1963 1962-1963 1965-1966 1965-1966 1965-1966	1st ACW 1st SOW - 7st SOS* - 1st SOS* - 415th SOS; - 415th SOS; - 415th SOS; - 415th SOS; - 15th SOS - 15th SOS - 15th SOS - 15th SOS - 25th SOS - 15th SOS	IC AH IH EF‡ EH‡	England AFB, LA Hurburt Pield, PL Losbourne AFB, OH Olmon County AFB, OH Phan Rang AB, Rin's Howard Field, Panama Nisirkon Phannon RTAFB, Thailand	1968-19 1969 1961-19 1969 1966-19 1966-19 1966-19 1971-19 1971-19
HASHI TOW (M)	42nd TOG 989th TCG - 303ed TCS 988th TCG - 304th TCS 937th TCG - 309th TCS - 309th TCS - 309th TCS - 309th TCS - 319th TCS - 319th TCS - 319th TCS - 59th TCS -	Richards Gebaur AFR, MO Richards Gebaur AFR, MO Richards Gebaur AFR, MO Richards Gebaur AFR, MO Triller AFR, CO Triller AFR, CO Triller AFR, CO Triller AFR, CO Dosaldoon AFR, SC Dosaldoon AFR, SC Dosaldoon AFR, SC Dosaldoon AFR, SC Dosaldoon AFR, SC Dobotins AFR, GA Mam Int PLAF, FL Mam Int PLAF, FL Mam Int PLAF, FL Miller AFR, GA Dobbon AFR, GA Dobbon AFR, GA	1963-1970 1967-1967 1967-1967 1963-1967 1963-1967 1963-1967 1967-1967 1967-1967 1962-1963 1962-1963 1965-1966 1965-1966 1965-1966 1965-1966 1965-1966	1st ACW 1st SOW - 7st SOS' - 317th ACSISOS' - 317th ACSISOS' - 415th SOST - 4408th CCTS' - OL #11 14th SOW - 17th SOS' - 18th SOS' - 7st SOS' - 24th SOW - (Various rotations 58th SOW	IC AH IH EF‡ EH‡	England AFIS, LA Hurburt Piett, FL Locidoume AFIS, OH Olimon County AFIS, OH Phan Rang AB, RNN Howard Field, Planama Naidhon Phanon RTAFE, Thailand Egile AFIS, FL	1968-19 1969 1961-19 1969 1966-19 1966-19 1966-19 1971-19 1971-19
443rd TCW (M)	442nd TOG 939h TCG - 303h TCS 939h TCG - 304h TCS 937h TCG - 309h TCS - 309h TCS - 319h TCS - 445h TCG 915h TCG 915h TCG - 96h TCS - 970h TCS - 446h TCG - 700h TCS - 700h TCS - 446h TCG - 700h TCS - 700h TCS	Richards Gebaur AFB, MO Richards Gebaur AFB, MO Richards Gebaur AFB, MO Richards Gebaur AFB, MO Richards Gebaur AFB, MO Triese AFB, CO Triese AFB, CO Triese AFB, CO Doubleon AFB, SC Doubleon AFB, SC BIT (SC BIT (SC) BIT (SC) B	1963-1970 1967-1967 1967-1967 1963-1967 1963-1967 1963-1967 1967-1967 1967-1967 1962-1963 1962-1963 1965-1966 1963-1966 1963-1966	1st ACW 1st SOW - 7st SOW - 7st SOG* - 317th ACSISOS* - 419th SOS - 419th SOS - 419th SOS - 17th SOS* - 17th SOS* - 18th SOS* - 18th SOS* - 24th SOW - (Various robations - 58th SOSY - 18th SOSY - 4410th CCTW	IC AH IH EF‡ EH‡	England AFIS, LA Huribust Field, FL Lookbourne AFB, OH Climon County AFB, OH Phase Rang AB, RNN Howard Field, Planama Nakhon Phanon RTAFB, Thailand Egjie AFB, FL England AFB, LA	1968-19 1969 1969-196 1968-19 1968-19 1968-19 1968-19 1971-191 1968-19 1968-19 1968-19
442rd TOW (M) 443rd TOW (M) 445rh TOW (M)	442nd TOG 989th TCG - 300th TCS 908th TCG - 300th TCS 937th TCG - 309th TCS - 309th TCS - 309th TCS - 319th TCG - 45th TCG - 96th TCG - 97th TCG - 97th TCG - 97th TCG - 97th TCS - 97th TCS	Richards-Galzar J PTE, M.O. Richards-Galzar J PTE, M.O. Richards-Galzar J PTE, M.O. Richards-Galzar J PTE, M.O. Richards-Galzar J PTE, M.O. Triske J PTE, O.C. Triske J PTE, O.C. Dozbards J PTE, D.C. Marris HT J PE, FTE, O.C. Dozbards J PTE, G.G. Dozbards J P	1963-1970 1967-1967 1967-1967 1963-1967 1963-1967 1963-1967 1963-1967 1962-1963 1962-1963 1962-1963 1962-1963 1965-1966 1965-1966 1965-1966 1965-1966 1965-1966 1965-1966	1st ACW 1st SOW - 7st 50S* - 317h ACSSOS* - 415h SOS1 - 4408h CCTS* - 0L #15 - 18h SOS* - 18h SOS* - 7st 50S* - 7st 50S* - 7st 50S* - 7st 50S* - 4406h CCTW - 71st SOS*	IC AH IH EF‡ EH‡ If sqrsi)	England AFB, LA Hutbut Fledt FL Ladbourne AFB, OH Climon County AFB, OH Phan Rang AS, RhN Howard Fleld, Pinama Nairhon Phanon RTAFB, Thailand Egila AFB, RL England AFB, LA Loobbourne AFB, OH	1968-1969 1969-1969 1968-197 1968-197 1968-196 1968-196 1977-197 1968-196 1977-197 1969-196 1969-196
443rd TCW (M)	442nd TOG 989sh TCG - 303nd TCS 989sh TCG - 309sh TCS 979sh TCS - 309sh TCS - 309sh TCS - 309sh TCS - 319sh TCG - 96sh TCS - 918sh TCG - 970sh TCS - 578sh TCG - 578sh TCS - 578sh TCG - 578sh TCG	Richards Gelbar ATR, M.D. Tries ATR, D.C. Doublabon ATR, S.C. Doublabon ATR, S.C. Doublabon ATR, S.C. Doublabon ATR, G.C. Albards ATR, G.C. Albards ATR, G.C. Doublabon ATR, D.C. Bartyon ATR, D.C.	1963-1970 1967-1969 1963-1967 1963-1967 1963-1967 1963-1967 1967-1967 1967-1967 1962-1963 1962-1963 1965-1966 1963-1966 1963-1966 1963-1966 1963-1966 1963-1966 1963-1966 1963-1966 1963-1966	1st ACW 1st SOW - 7st SOW - 7st SOG* - 317th ACSISOS* - 419th SOS - 419th SOS - 419th SOS - 17th SOS* - 17th SOS* - 18th SOS* - 18th SOS* - 24th SOW - (Various robations - 58th SOSY - 18th SOSY - 4410th CCTW	IC AH IH EF‡ EH‡	England AFB, LA Hutbut Fledt, FL Lodbourne AFB, OH Olmon County AFB, OH Howard Fledt, Panama Nashon Phanon RTAFB, Thailand Egile AFB, FL England FRL LA Lodbourne AFB, OH	1968-19 1969-1961-13 1969-1968-19 1968-19 1968-19 1971-197 1968-197 1968-197 1968-197 1968-197 1968-197
HASHI TOW (M)	442nd TOG 989th TCG - 300th TCS 908th TCG - 300th TCS 937th TCG - 309th TCS - 309th TCS - 309th TCS - 319th TCG - 45th TCG - 96th TCG - 97th TCG - 97th TCG - 97th TCG - 97th TCS - 97th TCS	Richards-Galzar J PTE, M.O. Richards-Galzar J PTE, M.O. Richards-Galzar J PTE, M.O. Richards-Galzar J PTE, M.O. Richards-Galzar J PTE, M.O. Triske J PTE, O.C. Triske J PTE, O.C. Dozbards J PTE, D.C. Marris HT J PE, FTE, O.C. Dozbards J PTE, G.G. Dozbards J P	1963-1970 1967-1967 1967-1967 1963-1967 1963-1967 1963-1967 1963-1967 1962-1963 1962-1963 1962-1963 1962-1963 1965-1966 1965-1966 1965-1966 1965-1966 1965-1966 1965-1966	1st ACW 1st SOW - 7st 50S* - 317h ACSSOS* - 415h SOS1 - 4408h CCTS* - 0L #15 - 18h SOS* - 18h SOS* - 7st 50S* - 7st 50S* - 7st 50S* - 7st 50S* - 4406h CCTW - 71st SOS*	IC AH IH EF‡ EH‡ If sqrsi)	England AFB, LA Hutbut Fledt FL Ladbourne AFB, OH Climon County AFB, OH Phan Rang AS, RhN Howard Fleld, Pinama Nairhon Phanon RTAFB, Thailand Egila AFB, RL England AFB, LA Loobbourne AFB, OH	1968-1969 1969-1969 1968-197 1968-197 1968-196 1971-197 1968-196 1971-197

182 Fairchild C-82 & C-119

alfetta (2007)

Air Force Reserve AC-119 Gunship Units Code Rase

Ind SOW	Lockbourne AFB, OH	1968-1973
# OCTS*		1968-1970
t TATS*		1970-1973
C.1193 + AC.119K + No.	carried because they would be seen when	nointed with a search.
	(Auxiliary) was assigned to the 1st ACW	

317th TAW. Lockbourne AFB. OH (equipped with C-190s) for administrative and locistics sun port 1 Operating Location #1, 4408th CCTS. Was in use between 10 March and 15 July 1969.

Air National Guard Units

302nd SOW

44

Unit	Base	Type	Dates
102nd ATS	Mitchel AFB, NV	MC-119J	1958-1962
129th TCS*	Hayward Airport, CA	C-119C/G/L	1963-1975
130h SOS	Kanawha Co Airport, WV	C-119C/G/L	1965-1975
140th ATS	Spaatz Field, PA	C-119J	1958-1961
	Olmstead AFB, PA		1961-1962
143rd SOS	T F Green Airport. RI	C-119G/L	1971-1975
145th ATS	Akron-Canton Municipal Airport, OH	C-119J	1957-1961
	Clinton Co AFB, OH		1961-1962
147th ATS	Greater Pittsburgh Airport, PA	C-119J	1961-1973
150th ATS	McGuire AFB, NJ	MC-119J	1958-1961
158th AAS	Douplas Municipal Airport, NC	C-119C	1961-1962
167th ATS	Kanawha Co Airport, WV	C-119C	1961-1963
183rd ATS	Hawkins Field, MS	C-119F	1957-1961
187th ATS	Chevenne Municipal Airport, WY	MC-119.I	1961-1963

*Changed to Air Commando Squadron then Special Operations Squadron

Other Units

HEMS MAW-1

AES-12

HEMS.17

HEMS-14

HEMS-25

HMRON-15

US Marine	Corps and Nav	ry Units	
Soundene	Code	Rasa	

US Marine Corps and Navy Units					
Squadron	Code	Base	Dates		
US Marine Corp	8				
WR-153	AC	NAS Itami, Japan	1952-1953		
WR-216	ST	NAS Seattle, WA	1961-1967		
	71	NAS Seattle, WA	1967-1972		
	MV	NAS Whichey Island, WA	1972-1972		
VMR-234	5E	NAS Minneapolis, MN	1972-1972		
	QH	NAS Glerwiew, IL	1972-1975		
WR-252	LH	MCAS Cherry Point, NC	1950-1957		
	BH	MCAS Cherry Point, NC	1957-1971		
VMR-253	AD	NAS Itami, Japan	1953-1955		
	AD	NAS Iwakuni, Japan	1955-1957		
	QD	NAS Iwakuni, Japan	1957-1959		
VMR-352	LB	MCAS El Toro, CA	1950-1957		
	QB	MCAS El Toro, CA	1957-1961		
VMR-353	MZ	NAS Miami, FL	1953-1957		
	DZ	NAS Miami, FL	1957-1960		
CATRAM	TY	NAS Grosse Isle, MI	circa 1960		
	5T	NAS Seattle, WA	1961-1966		
	5V	NAS Glenview, IL	1966-1967		

MCAS Kaneohe, HI

AFSC ARS ARS BW (L) 1952 1953 CCTW Combat Crew Training Wing

1954-1955

1953,1954 FBW Fighter-Bomber Wing

1954-1955

1964

EASDON-117 MARTO

HEDRON-25

HAMPON 22

US Navy

Dotes

1009,1071 MARS.33 NATC B&D

NAS North Island, CA

MCAS Miami, FL

NATC Patroect River, MD

NAS Port Lyautey Morocco.

NAS Barber's Point, HI

MCAS Cherry Point, NC

The tail codes beginning with a numeral were for Marine Reserve units assignant to the 2th Marine Air Wing which were not assigned to a Marine Reserve transport squadron, and based at a reserve naxal air station. These aircraft carried the tail code assigned to the facility where they

Detachment

Rescue Unit Strategic Air Command

Military Air Transport Service Military Air Transport Service

1054,1055

1950 1957

1958-1959

1954,1963

1957-1959

1956,1968 1958,1959

1958-1959 1000,1000

1954

1953

Unit Abbreviations

Aeromedical Airlift Squadron H&MS Headquarters & Maintenance Son HAMRON - Headquarters & Maintenance Son I&M Sgn. Installation & Maintenance Squadron. Air Rase Smuarinn MARS Marine Air Repair Squadron Air Base Wino MARTAD Marine Air Reserve Training Air Commando Souadron Air Delense Command

Aeromedical Transport Squadron

Rombardment Woo (Light)

CONUS COntinental United States

FASRON Fleet Air Service Squadron

FrvSgn Ferrying Squadron

NABTC Naval Air Basic Training Center ADFG Air Defense Fighter Group ADPW Air Defense Fighter Wing RTAFR Royal Thai Air Force Base Air Defense Group Air Force Communications Service

Strategic Air Command SO&ES Station Operation & Engineering Son AirFLMLANT - Fleet Marine Force Atlantic (Air) Special Operations Squadron AR&CS Air Resupply & Communications Son Air Refueling Squadron Strategic Reconnaissance Wing Air Rescue Squadron Tactical Airlit Training Squadron Tactical Airlift Wing

Troop Carrier Squadron Combat Crew Training Squadron Technical Training Wing VMR

Heavier-than-air Marine Transport Heavier-than-air Navy Transport Son seemmod Fairchitt Sett (288-)181

C-82s and C-119s in Foreign Service

Force also received C-82s. While most were provided under the Mutual Defense Assistance Plan (MDAP). Canada and India made direct purchases of the aircraft from Fairchild. Where known, foreign serials are cross-refer-

enced to US serials. Disposition of many of the aircraft is also provided. Robotsom - All regionard to 20th TS/15th TW Brussels Oct 1953, Jul 1973

beigiam - Arabagas is control to the fire and an area							
USAF S/n	Model/Series	Codes		Remarks			
51-2692	C-119F-FA	CP-1	OT-CAA	To Norwegian AF			
51-2693	C-119F-FA	CP-2	OT-CAB	To Norwegian AF			
51-2694	C-119F-FA	CP3	OT-CAC				
Unknown	C-119F-FA	CP-14	OT-CAN	Scrapped at Koksijde			
51-2695	C-119F-FA	CP-4	OT-CAD	To Norwegian AF			
51-2696	C-119F-FA	CP-5					
Unknown	C-119F-FA	CP-11	OT-CAK	Scrapped at Koksijde			

51-2697 C-119F-FA CP-6 OT-CAF To Norwegian AF CP-7 OT-CAG To Norwegian AF 51,2698 C-119E-EA 51-2699 C-119F-FA CP-8 OT-CAH To Norwegian AF 51-2700 C-110E.EA CR.O. OT.CAI Scranned at Knisside CP-10 OT-CA1 Preserved Musée Royal de l'Armée, Zaventem C-119E-EA

CP-11 OT-CAK To Nonwegian AF C-119F-FA C-110E-EA CR.12 OT.CAI Stranged at Koksilde C-119E-EA CP-13 OT-CAM Scrapped at Koksilde C-119F-FA CP-14 OT-CAN To Norwegian AF C-119F-FA CP-15 OT-CAO Scrapped at Koksijde

CP-16 OT-CAP Scrapped at Koksirta C-119E-FA C-119F-FA CP-17 OT-CAQ Scrapped at Kokside 51-2690 C-119E-EA CP-18 OT CAR 52,6021 C.119E-35-EA CP-23 OT-CBC Crashed at Chièvres 12 Dec 1961 C-119F-35-FA CP-21 OT-CBA Scrapped at Kokside C.119E-3S-EA CP-22 OT-CRR 52,6136 C.119E-35-EA CP-27 OT-CBG Scrapped at Kokside 52-6027 C-119F-35-FA CP-30 OT-CBJ Scranowd at Koksiida 52 6028 C-119F-35-FA CP-26 OT-CBF Scrapped at Kokside

52,6022 C.119F.35-FA CP-33 OT-CBM Scrapped at Kokside 52-6033 C-119F-35-FA CP-20 OT-CAT Scrapped at Kokslide 52-6034 C-119F-35-FA CP-19 OT-CAS Crashed at Holgeishar 22 Oct 1965 52,6035 C-119F-35-FA CP-31 OT-CBO Scrapped at Kokslide 52-6038 C-119F-35-FA CP-24 OT-CBD Scrapped at Kokslide 52-6039 C-119F-35-FA CP-28 OT-CBH Scrapped at Kokslide 50,4043 C.119F-35-FA CP-25 OT-CBE Crashed at Chilvres 12 Dec 1961 52-6044 C-119F-35-FA CP-36 OT-CBP Crashed at Rushengo 19 Jul 1960 52-6045 C-119F-35-FA CP-32 OT-CBL Scrapped at Kokslide 50.6046 C-119F-35-FA CP-39 OT-CBS Scrapped at Kokside 52-6047 C-119F-35-FA CP-29 OT-CBI To Ethiopian AF

C-119F-35-FA CP-38 OT-CBR Scrapped at Koksijde 52-8052 C-119F-35-FA CP-35 OT-CBO Scrapped at Kokslide C-119F-35-FA CP-37 OT-CBQ To Ethiopian AF 52,6055 52-6058 C-119F-35-FA CP-40 DT-CBT Scrapped at Kokside C-119G-36-FA CP-41 OT-CEA Scrapped at Koksijde 53-7829 53,7843 CU19G36-FA CP-42 OT-CER 53,8130 C-119G-36-FA CP-43 OT-CEC Scrapped at Kokslide 53-8141 C-119G-36-FA CP-44 OT-CED Scrapped at Kokslide 53-8143 C-119G-36-FA CP-45 OT-CEE Crashed nr Augustdorf, W Germany 26 Jun 63 53,8151 C-119G-36-FA CP-46 OT-CEH At Musée Rovale de l'Armée, Brussels

52-6050 C-119F-35-FA CP-34 OT-CBN Scrapped at Kokside

A number of Allied nations received C-119s from the US. The Brazilian Air | Brazili - Assigned to 1° GTT, Area dos Afonsos. C-82s 1956-1967; C-119s 1963-1975

USAF Sin	Model Series	FAB Sin	Remarks
48-586	C-82-FA	2201	1º Grupo de Transporte de Tropas
48-585	C-82-FA	2202	1º Grupo de Transporte de Tropas
		2203	1º Grupo de Transporte de Tropas
48-580	C-82-FA	2204	1º Grupo de Transporte de Tropas
		2205	1º Grupo de Transporte de Tropas
		2206	1º Grupo de Transporte de Tropas
48-578	C-82-FA	2207	1º Grupo de Transporte de Tropas
		2208	1º Grupo de Transporte de Tropas
		2209	1º Grupo de Transporte de Tropas
		2210	1º Grupo de Transporte de Tropas
51-8064	C-119G-FA		1º Grupo de Transporte de Tropas
51-8065	C-119G-FA		1º Grupo de Transporte de Tropas
51-8066	C-119G-FA	2310	1º Grupo de Transporte de Tropas
51-8067	C-119G-FA		1º Grupo de Transporte de Tropas
51-8074	C-119G-FA	2304	1º Grupo de Transporte de Tropas
51-8075	C-119G-FA		1º Grupo de Transporte de Tropas
51-8076	C-119G-FA	2305	1º Grupo de Transporte de Tropas
51-8077	C-119G-FA	2312	1º Grupo de Transporte de Tropas
51-8080	C-119G-FA		1º Grupo de Transporte de Tropas

51-8084	C-119G-FA		1º Grupo de Transporte de Tropas				
51-8086	C-119G-FA		1º Grupo de Transporte de Tropas				
51-8092 C-119G-FA			1º Grupo de Transporte de Tropas				
Canada - For unit assignments see footnote							
USAF S/n	Model/Series	RCAF S/n	Remarks				
	C-119F-KM	22101	To Hawkins & Powers, Museum				
	C-119F-KM	22102					
	C-119F-KM	22103	To Hawkins & Powers. Museum				
	C-119F-KM	22104					
	C-119F-KM	22105	To Hawkins & Powers, Museum				
	C-119F-KM	22106	To Hawkins & Powers, Museum				
	C-119F-KM	22107	To Hawkins & Powers, Museum				
	C-119F-KM	22108	To Hawkins & Powers.				
	C-119F-KM	22109	Museum				
	C-119F-KM	22110	Museum				
	C-119F-KM	22111	To Hawkins & Powers, Museum				
	C-119F-KM	22112	To ECM.				
	C-119F-KM	22113	To ECM.				
	C-119F-KM	22114	To Hawkins & Powers, Museum				
	C-119F-KM	22115	To Hawkins & Powers.				
	C-119F-KM	22116	To Hawkins & Powers, Museum				
	C-119F-KM	22117					
	C-119F-KM	22118	To Hawkins & Powers, Museum				
	C-119F-KM	22119					
	C-119F-KM	22120	To Hawkins & Powers.				
	C-119F-KM	22121					
	C-119F-KM	22122	To ECM. To Hawkins & Powers. Mus				
	C-119F-KM	22123					
	C-119F-KM	22124					
	C-119F-KM	22125					
	C-119F-KM	22126					

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		ocalon			0.0000			10.50	
	C-119F-KM C-119F-KM	22128 22129			51-8140	C-119J-KM	46-54	46-54	Converted to VC-119J in 1969. Transferred to 50' Gruppo. Scrapped at Pisa
	C-119F-KM	22130			52-6030	C-119G-35-FA		46-95	Crashed at Pisa 24 Jan 1979
	C-119F-KM	22131		To Hawkins & Powers. Museum	51-8144	VC-119J-KM	46-55	46-55	Scrapped at Vergiate
	C-119F-KM	22132		To Hawkins & Powers.	51-8152	C-119J-KM	46-56	46-56	Scrapped at Pisa
	C-119F-KM	22133		To Hawkins & Powers.	51-8154	C-119J-KM	46-57	46-57	Crashed at Cistema 23 Jun 1969
	C-119F-KM	22134		To Hawkins & Powers, Museum	51-8156	C-119J-KM	45-58	46-58	Scrapped at Pisa
	C-119F-KM	22135		To Hawkins & Powers, Museum	51-8158	VC-119J-KM	46-62	46-62	Scrapped at Vergiate
					51-17365	C-119G-FA	45-9	46-77	Scrapped at Pisa
inits were	418 Son Rivers	Manitoha	Apr 19	964-May 1965; 435 Sqn, Edmonton, Alberta Sep.	51-17366	C-119G-FA	46-2	46-80	Scrapped at Pisa
1950, let 10	65: 436 Son Do	nyal Queb	ec Are !	1953-Jul 1956 then Downsview, Ontario Jul 1956-	51-17367	C-119G-FA	48-4	46-27	Scrapped at Pisa
M 1986-11	Of Composite II	init St Huly	ort Oce	bec May 1956-Oct 1958 (redesignated 104 Com-	52-5849	C-119J-FA	46-59	46-59	Scrapped at Vergiste
				d RCAF Electronic Warfare Unit 1 Apr 1959.					
nunceion.	& Calibration Fi	gittinor	1000 an	U HUAT DECENTION HERBIE OF TAPE 1806.	52-5851	C-119J-FA	46-60	46-50	Scrapped at Vergiate
Ethionis	a - Al serionad	to 1 Sound	fron at E	Bishoftu c1972-1986	52-5886 52-5884	C-119J-FA EC-119J-FA	46-61 46-63	46-61 46-63	Scrapped at Pisa Converted to EC-119J in 1969. Transferred to
	Model/Series		Codes	Remarks					71° Gruppo. Scrapped at Vergiate
					52-5896	EC-119J-FA	46-64	46-64	Converted to EC-119J in 1973. Transferred to 71' Gruppo. Scrapped at Pisa.
\$2-5899	C-119G-FA	9	112	1 Sqn	52-5897	C-119J-FA	45-65	46-65	Scrapped at Pisa
52-5932	C-119G-FA			1 Sqn			46-66	46-66	
53-3160	C-119G-36-FA		117	1 Sqn	52-5947	C-119J-FA			Scrapped at Pisa
53-3188	C-119G-36-FA	9	115	1 Sqn	52-6000	C-119G-35-FA		46-98	Scrapped at Pisa
53-7856	C-119G-36-FA	9	111	1 Sqn	52-6001	C-119G-35-FA	46-13	46-33	Scrapped at Pisa
53-8108	C-119G-84-KM	9	916	1 Sgn	52-6003	C-119G-35-FA	46-5	46-31	Scrapped at Pisa
					52-6004	C-119G-35-FA	46-8	46-34	Scrapped at Pisa
					52-6005	C-119G-35-FA	46-3	None	Crashed at Pisa 1963
India - A	Assigned to 12, 1	9, 48 Sqns	and Pa	ratroop Training School at Agra	53-6006	C-119G-35-FA	46-7	46-82	Scrapped at Pisa
_	-				52-6007	C-119G-35-FA	46-37	46-87	Scrapped at Pisa
USAF Sin	Model Series	IAF Sin		Remarks	52-6008	C-119G-35-FA	46-20	46-20	Scrapped at Pisa
53-4637	C-119G-38-FA	INVAN			52-6009	C-119G-35-FA	46-24	46.24	Scrapped at Pisa
	C-119G-36-FA				52-6010	C-119G-35-FA		46-23	Scrapped at Pisa
53-4538					52-6011	C-119G-35-FA		None	Crashed at Luluaburg 15 Feb 1961
53-4539	C-119G-36-FA	IK443			52-6012	C-119G-35-FA		46-29	Scrapped at Pisa
53-4640	C-119G-36-FA	IK444							
53-4541	C-119G-36-FA				52-6013	C-119G-35-FA		46-37	Scrapped at Pisa
53-4642	C-119G-36-FA	IK446			52-6014	C-119G-35-FA		None	Crashed in Lake Tanganyika 17 Nov 1961
53-4643	C-119G-36-FA	IK447			52-6015	C-119G-35-FA		46-19	Scrapped at Pisa
53-4544	C-119G-36-FA	IK448			52-6016	C-119G-35-FA	46-31	46-81	Scrapped at Pisa
\$3,4645	C-119G-36-FA				52-6017	C-119G-35-FA	46-18	46-39	Scrapped at Pisa
53-4646	C-119G-36-FA			Museum	52-6018	C-119G-35-FA	46-24	46-86	Crashed at Rivolto 25 Apr 1970
53-4647	C-119G-36-FA				52-6019	C-119G-35-FA	46-21	45-21	Scrapped at Pisa
53-4648	C-119G-36-FA				52-6020	C-119G-35-FA	46-34	46-84	On display at Rivolto
534649	C-119G-36-FA				52-6024	C-119G-35-FA	46-41	46-91	Scrapped at Pisa
					52-6025	C-119G-35-FA	46-36	45-35	Scrapped at Vergiate
\$3-4650	C-119G-36-FA				52-6029	C-119G-35-FA	46-43	46-93	On display at Campoformidio
\$34651	C-119G-36-FA			Stored	52-6030	C-119G-35-FA	46-27	46-95	Crashed at Pisa 24 Jan 1979
53-4652	C-119G-36-FA								
\$3-4653	C-119G-36-FA			Stored	52-6031	C-119G-35-FA	40:30	46-30	VC-119G with 2* Gruppo from 1980. To EC-1190
\$3-4654	C-119G-36-FA								To 711 Gruppo 1975. Scrapped at Vergiate
\$3,4655	C-119G-36-FA	IK459			52-6036	C-119G-35-FA		None	Crashed off of Pisa 20 Apr 1964
\$3,4856	C-119G-36-FA	IK460			52-6037	C-119G-35-FA		None	Crashed at Kwamouth 2 Feb 1961
\$34657	C-119G-36-FA				52-6040	C-119G-35-FA		46-25	Scrapped at Pisa
\$3.4658	C-119G-36-FA				52-6041	C-119G-35-FA		46-28	Scrapped at Pisa
\$3.4659	C-119G-36-FA				52-6042	C-119G-35-FA	45-32	46-32	Scrapped at Pisa
53-4960	C-119G-36-FA				52-6048	C-119G-35-FA		46-92	Scrapped at Pisa
53,4961	C-119G-36-FA				52-6049	C-119G-35-FA		46-83	Scrapped at Pisa
					52-6053	C-119G-35-FA		46-85	Scrapped at Pisa
53-4662	C-119G-36-FA	18,466			52-6054	C-119G-35-FA		46-88	Scrapped at Pisa
Butter.			- H24	D. and an additional SW anadomical against				46-89	Scrapped at Pisa Scrapped at Pisa
me Wine	ceived further C-	11908 LNG	per silitia	P; and an additional 176 overhauled engines.	52-8056	C-119G-35-FA			
					52-6057	C-119G-35-FA		46-90	Scrapped at Pisa
Italy - F	or unit assignme	ents see for	otnote.	Codes listed in two columns: pre- and post-1965	53-3200	C-119G-36-FA		46-38	Scrapped at Pisa
					53-3219	C-119G-36-FA		46-96	Scrapped at Pisa
USAF S in	Model/Series	Codes		Remarks	53-7828	C-119G-36-FA	46-47	46-97	Scrapped at Pisa
					53-7845	C-119G-36-FA	46-44	46-94	Formerly with Indian AF. Scrapped at Pisa
9.8046	C-119J-KM	None 1	None	Ground accident 14 Dec 1964; to instructional	53-8098	C-119J-KM	46-67	46-67	Scrapped at Pisa
				aircraft Jan 1965. Used for spares until 1988.	53-8103	VC-119J-KM	46-68	46-68	Scrapped at Pisa
51-8113	C-119J-KM		46-69	Scrapped at Pisa	53,8146	C-119G-KM	46-45	46-355	Formerly with Indian AF. Converted to
98121	C-119J-KM	46-50	46-50	At Turin Museum	20-01-40	2-1100-100	-0-40	~~~	EC-119G in 1976. Transferred to 71° Gruppo
9.8125	C-119J-KM	46-51	46-51	Scrapped at Pisa					Composition and managements of the oroppo
9.8129	C-119J-KM		46-52	Scrapped at Pisa	Units wer	e 2º Grunno 48º	omno	Pisa May 1	1953-Jan 1979; 50' Gruppo, 46' Stormo, Pisa Ju
2630	EC-119J-KM		46-53	Converted to EC-119J in 1975.	1064 May	1977: 98: Grupps	AD DIN	ma Dies E	Feb 1954-Jan 1979; 14' Stormo, 71' Gruppo, Prati
100	LUTIOUTIN	*****	-500	Transferred to 71" Gruppo. Scrapped at Pisa	di Mare 1	972-89. 2°, 50°, as	d 98" G	uppi were	assigned to 46' Aerobrigata, Transport Wing 1.
									Fairchibi C-82 & C-119 18 alfetta (2007)

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			-		51-8071	C-119F-FA	3183	
USAF Sin	Model/Series		Remarks		51-8079	C-119F-FA	3144	
52-5863	C-119G-FA				51-8091	C-119F-FA	3126	
52-5880	C-119G-FA				51-8094	C-119F-FA		
52-5918	C-119G-FA				51-8099	C-119F-FA	3142	
25-2810	U-1190-FA				51-8106	C-119FKM	3190	Preserved Gang Shan. AF Academy Muse
					51-8120	C-119F-KM	3192	Storage
					51-8136	C-119F-KM	3152	Storage
				1000	51-8147	C-119F-KM	3198	oronge
Moroco	 Assigned to 	1st Air Transpo	rt Squadron c1963	-1980	51-8150	C-119F-KM	3204	Storage
DOAF OF	Model/Series	Cades	Remarks		52-5844	C-119G-36-FA	00.04	owage
		Cours			52-5848	C-119G-36-FA	2101	
49-139	C-119C-13-FA		1st ATS		52-5869	C-119G-36-FA		
49-171	C-119C-16-FA		1st ATS		52-5870	C-119G-36-FA		
49-180	C-119C-16-FA		1st ATS		52-3140	C-119G-36-FA	310/	
49-183	C-119C-16-FA		1st ATS			C-119G-36-FA	2155	
49-187	C-119C-17-FA		1st ATS		52-3165		3100	
49-190	C-119C-17-FA	CAN-MN	1st ATS. Pres	erved at Marrakech.	52-5923	C-119G-36-FA		
53-3160	RC-119L				52-5924	C-119G-36-FA		
53-7862	C-119G-36-FA	CAN-MH	1st ATS, Pres	erved at Kenitra.	52-5937	C-119G-36-FA	3137	
53-8095	C-119G-84-KM		1st ATS		53-3143	C-119G-36-FA		
0000	- 1100 0-718				53-3144	C-119G-36-FA		
					53-3153	C-119G-36-FA		
					53-3158	C-119G-36-FA		
Namous	Assissand to 9	16 Can Cantas	moen Jun 1956-Ju	1000	53-3164	C-119G-36-FA		
Norway	- Assigned to 3	35 SQN, Garden	uneu anu isoe-an	1969	53-3171	C-119G-36-FA	3171	
HOAE Ola	Model Series	Codes	Names	Remarks	53-3172	C-119G-36-FA	3172	
					53-3176	C-119G-36-FA	3176	
51-2692	C-119F-FA	BW-C	Cappy	Returned to USAF	53-3177	C-119G-36-FA	3177	
51-2693	C-119F-FA	BW-B	Barrse	Returned to USAF	53-3181	BC-119L-KM	3181	Destroyed in a ground fire at Pingtung AB a
51-2695	C-119F-FA	BW-E	Elmer	Crashed 16 Dec 1968				1 June 1996
51-2697	C-119F-FA	BW-A	Anton	Returned to USAF	53-3207	C-119G-36-FA	3129	
51-2698	C-119F-FA	BW-F	Filmbeck	Returned to USAF	53-7870	C-119G-36-FA		
	C-119F-FA	BW-D	Donald [*]					
				Returned to USAF				
51-2899		BW-H	Hiewatha	Returned to USAF	53-7875	C-119G-36-FA		
51-2702 51-2705	C-119F-FA C-119F-FA	BW-G	Higwetha Goofey	Returned to USAF Returned to USAF	53-8132 Assigned	C-119G-84-KM to 101st TCS, Pin	3139 gtung 1959-19	86; 102nd TCS; 103rd TCS 1959-1997. p Carrier and Anti-Submarine Combined Wing.
51-2702 51-2705 Republi	C-119F-FA C-119F-FA	BW-G (Taiwan) -	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	53-8132 Assigned These squ	C-119G-84-KM to 101st TCS, Pin adrons reported	3139 glung 1959-19 to the 6th Troc	
51-2702 51-2705 Republi	C-119F-FA C-119F-FA Ic of China Model Series	(Taiwan) -	Higwetha Goofey	Returned to USAF Returned to USAF	53-8132 Assigned These squ Repub	C-119G-84-KM to 101st TCS, Pin adrons reported	3139 glung 1969-19 to the 6th Troc m (South	p Carrier and Anti-Submarine Combined Wing.
51-2702 51-2705 Republi USAF S/n 51-2709	C-119FFA C-119FFA Ic of China Model Series C-119F-FA	(Talwan) - Codes 3125	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	53-8132 Assigned These squ Repub USAF Sin	C-119G-84-KM to 101st TCS, Pin ladrons reported like of Vietna Model/Series	3139 glung 1969-19 to the 6th Troc m (South	p Carrier and Anti-Submarine Combined Wing. Vietnam) – For unit assignments see footnote Remarks
51-2702 51-2705 Republi USAF Sin 51-2709 51-2710	C-119F-FA C-119F-FA Ic of China Model Series C-119F-FA C-119F-FA	(Taiwan) Codes 3125 3174	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	S3-8132 Assigned These squ Repub USAF Sin 51-7983	C-119G-84-KM to 101st TCS, Pin ladrons reported like of Vietna Model/Series C-119F-FA	3139 glung 1969-19 to the 6th Troc m (South	p Carrier and Anti-Submarine Combined Wing. Vietnam) - For unit assignments see footnote Remarks 413h TS, S3rd TW.5th AD
51-2702 51-2705 Republi USAF S/n 51-2709 51-2710 51-2711	C-119FFA C-119FFA Ic of China Model Series C-119F-FA C-119F-FA C-119F-FA	(Taiwan) Codes 3125 3174 3162	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	53-8132 Assigned These sq. Repub USAF Sin 51-7983 52-5892	C-119G-8+KM to 101st TCS, Pin sadrons reported like of Vietna Model/Series C-119F-FA C-119G-FA	3139 glung 1969-19 to the 6th Troc m (South	p Carrier and Arti-Submarine Combined Wing. Vietnam) – For unit assignments see footnote Remarks 413h TS, 53kd TW,5th AD 413h TS, 53kd TW,5th AD
51-2702 51-2705 Republi USAF Sin 51-2709 51-2710 51-2711 51-2716	C-119F-FA C-119F-FA Ic of China Model Series C-119F-FA C-119F-FA C-119F-FA C-119F-FA	(Taiwan) Codes 3125 3174	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	53-8132 Assigned These squ Repub USAF Sin 51-7983 52-5892 52-5892	C-119G-8+KM to 101st TCS, Pin sadrons reported like of Vietna Model/Series C-119F-FA C-119G-FA C-119G-FA	3139 glung 1969-19 to the 6th Troc m (South	p Camer and Arti-Submarine Combined Wing. Vietnam) – For unit assignments see footbole Remarks 413th TS, S3rd TW,5th AD
51-2702 51-2705 Republi USAF S/n 51-2709 51-2710 51-2711 51-2716 51-5924	C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA	(Talwan) Codes 3125 3174 3162 3112	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	53-8132 Assigned These sq. Repub USAF Sin 51-7963 52-5892 52-5825 52-5827	C-119G-84-KM to 101st TCS, Pin sachons reported like of Vietna Model/Series C-119G-FA C-119G-FA C-119G-FA C-119G-FA	3139 glung 1969-19 to the 6th Troc m (South	p Canier and Artil-Submarine Combined Ring. Vietnam) – For unit assignments see lookole Remarks 413h TS, Said TW,5th AD
51-2702 51-2705 Republi USAF S/n 51-2709 51-2710 51-2711 51-2716 51-5924 51-7973	C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA	(Talwan) Codes 3125 3174 3162 3112 3210	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	53-8132 Assigned These sq. Repub USAF Sin 51-7963 52-5892 52-5825 52-5827 53-3145	C-119G-84-KM to 101st TCS, Pin adrons reported lic of Vietna I Model/Series C-119G-FA C-119G-FA C-119G-FA C-119G-FA C-119G-FA	3139 glung 1969-19 to the 6th Troc m (South	p Canier and Arel-Submanne Combined Wing. Vietnam) – For unit assignments see bothde Remarks 413th TS, S3rd TW,5th AD
51-2702 51-2705 Republi USAF Sin 51-2719 51-2710 51-2711 51-2716 51-923 51-7973 51-7978	C-119F-FA C-119F-FA Ic of China Model Series C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA	(Talwan) Codes 3125 3174 3162 3112	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	53-8132 Assigned These sq. Repub USAF Sin 51-7983 52-5892 52-5925 52-5927 53-3145 53-3147	C-119G-84-KM to 101st TCS, Pin adrons reported: Ilic of Vietna Model/Series C-119G-FA C-119G-FA C-119G-FA C-119G-FA C-119G-95-FA C-119G-95-FA	3139 glung 1969-19 to the 6th Troc m (South	g Canier and Arth-Submanne Combined Wing. Vietnam) – For unit assignments see bottole Remarks 413h TS, Sah TW,5th AD
51-2702 51-2705 Republi USAF Sin 51-2710 51-2710 51-2711 51-2716 51-3273 51-7978 51-7978	C-119F-FA	(Taiwan) -1 Codes 3125 3174 3162 3112 3210 3123	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	53-8132 Assigned These squ Repub USAF Sin 51-7963 52-5892 52-5825 52-5825 53-3145 53-3147 53-3148	C-119G-84-KM to 101st TCS, Pin sadrons reported Bic of Vietna Model/Series C-119G-FA C-119G-FA C-119G-96-FA C-119G-96-FA C-119G-96-FA C-119G-96-FA C-119G-96-FA	3139 glung 1969-19 to the 6th Troc m (South	P Canner and Arti-Submanner Combined Wing. Violetnam) - For unit assignments see bottolic Remarks 413h TS, 53rd TW,5th AD
51-2702 51-2705 Republi USAF Sin 51-2709 51-2710 51-2716 51-5924 51-7973 51-7978 51-7978 51-7981	C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA C-119F-FA	(Talwan) Codes 3125 3174 3162 3112 3210 3123 3196	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	53-8132 Adsigned These squ These squ USAF Sin 51-7963 52-5862 52-5862 53-3145 53-3147 53-3148 53-3157	C-119G-84-KM to 101st TCS, Pin ladrons reported Model/Series C-119G-FA	3139 glung 1969-15 to the 6th Troc m (South Codes	p Carel and Ard Submanna Contined Wing. Vietnam) – For unit assignments see bottok Remarks 4139 TS, 3394 TW,559 AD
51-2702 51-2705 Republi USAF Sin 51-2709 51-2710 51-2716 51-5274 51-7973 51-7978 51-7981 51-7984	C-119FFA C-119FFA C-119FFA C-119FFA C-119FFA C-119FFA C-119FFA C-119FFA C-119FFA C-119FFA C-119FFA C-119FFA C-119FFA	(Talwan) Codes 3125 3174 3162 3112 3210 3123 3196 3220	Hiswatha Gootey For unit assignment Remarks	Returned to USAF Returned to USAF	53-8132 Assigned These sq. These sq. USAF Sin 151-7963 52-5862 52-5862 53-3147 53-3146 53-3157 53-3161	C119G-94-KM to 101st TCS, Pin adrons reported Ilic of Vietna Model/Series C119G-FA C119G-FA C119G-96 C119G-96 FA C119G-96 FA C	3139 glung 1969-15 to the 6th Troc m (South Codes	p Canier and Ard-Submanna Contined Wing. Violetnam) - For unit assignments see bottote Remarks 4/39 TS, 53-51 TW,599 AD 4/39 TS, 53-51 TW,599 AD 4/399 TS, 53-51 TW,599 AD 4/390
51-2702 51-2705 Republi USAF S/n 51-2709 51-2710 51-2716 51-5216 51-7973 51-7978 51-7981 51-7981 51-7984 51-7985	C119FFA C119FFA C119FFA Model Series Model Series C119FFA	BW-G (Taiwan) Codes 3125 3174 3162 3112 3210 3123 3196 3220 3160	Hewatha Gootey For unit assignmen	Returned to USAF Returned to USAF	53-8132 Assigned These sq. Repub USAF Sin 51-7963 52-5892 52-5827 53-3145 53-3157 53-3167 53-3167 53-3167	C119G-94-KM to 101st TCS, Pin advors reported to 101st TCS, Pin advors rep	3139 glung 1969-15 to the 6th Troc m (South Codes	p Canier and Anti-Submanna Contined Wing. Wietnam) – For unit assignments see botton Remarks 4139 TS 5.550 TM:599 AO 4139 TS 5.550 TM:599 AO 4139 TS 5.504 TM:599 AO
51-2702 51-2705 Republi USAF Sin 51-2709 51-2710 51-2716 51-924 51-7973 51-7979 51-7981 51-7981 51-7989	C-119FFA	(Taiwan) (Codes 3125 3174 3162 3112 3210 3123 3196 3220 3119	Hiswatha Gootey For unit assignment Remarks	Returned to USAF Returned to USAF	53-8132 Assigned These sq. Bepub USAF Sin 51-7963 52-5862 52-5862 53-3147 53-3161 53-3161 53-3173 53-3173	C119G-9+KM to 101st TCS, Pin address reposted like of Vietna like	3139 glung 1969-15 to the 6th Troc m (South Codes	p Canier and Arti Submanna Contined Wing. Violetnam) - For unit assignments see bottote Remarks 4139 TS, 53-51 TW,559 AD
51-2702 51-2705 Republi USAF Sin 51-2709 51-2710 51-2711 51-7973 51-7973 51-7978 51-7984 51-7984 51-7985 51-7989 51-7999	C119FFA C119FFA C119FFA Model Series C-119FFA C119FFA	(Talwan) - I Codes 3125 3174 33162 3112 3210 3123 3195 3220 3119 3206	Hiswatha Gootey For unit assignment Remarks	Returned to USAF Returned to USAF	53-8132 Assigned These squ These squ USAF Sin 51-7963 52-5962 52-5927 53-3146 53-3157 53-3167 53-3175	C119G-94-KM to 101st TCS, Pin addrons reposted like of Vietna I Model/Series C-119G-FA C-119G-FA C-119G-95-FA	3139 glung 1969-15 to the 6th Troc m (South Codes	Course and Are Submanne Continued Way Weetnamy - For unit assignments are bodies Resemble 413h TS, Sub T MISS AD 413h TS, Sub T MISS AD
51-2702 51-2705 Republi USAF Sin 51-2709 51-2710 51-2716 51-2716 51-2716 51-2716 51-7978 51-7978 51-7978 51-7981 51-7981 51-7984 51-7985 51-7989 51-7989	C119FFA	(Taiwan) Codes 3125 3174 3162 3112 3210 3123 3196 3220 3119 3210 3119 3210 3119 3190 3199	Hiswatha Gootey For unit assignment Remarks	Returned to USAF Returned to USAF	53-8132 Assigned These sq. These sq	C119G-94-KM to 101st TCS, Pin address reposted to 119G-64 C119G-96-64	3139 glung 1969-15 to the 6th Troc m (South Codes	Correct and Arts Submanne Controval Way Wilstmann) - For unit assignments are bottom Rementa. 41th 15, 35ch 1959-AD 41th 15, 35ch 1959-AD
51-2702 51-2705 Republi USAF Sin 51-2709 51-2710 51-2711 51-2711 51-2711 51-2711 51-7915 51-7981 51-7981 51-7984 51-7985 51-7985 51-7996 51-7996	C119FFA C119FFA C119FFA Model Series C-119FFA C119FFA	(Talwan) - I Codes 3125 3174 33162 3112 3210 3123 3195 3220 3119 3206	Hiswatha Gootey For unit assignment Remarks	Returned to USAF Returned to USAF	S3-8132 Assigned These sq. These sq	C119G-84-KM to 101st TCS, Pin sachters reported to 119G-84 C119G-95 C119G-9	3139 glung 1969-15 to the 6th Troc m (South Codes	Cycline and An Substance Controval Way Wietnam) - For ant assignments see bottom Remotas 410
S1-2702 51-2705 Republi USAF Sin 51-2709 51-2710 51-2711 51-2711 51-2716 51-7973 51-7978 51-7984 51-7985 51-7985 51-7989 51-7980 51-7996 51-8903	C119FFA	(Taiwan) Codes 3125 3174 3162 3112 3210 3123 3196 3220 3119 3210 3119 3210 3119 3190 3199	Hiswatha Gootey For unit assignment Remarks	Returned to USAF Returned to USAF	53-8132 Assigned These sq. These sq	C119G-94-KM to 101st TCS, Pin address reposted to 119G-64 C119G-96-64	3139 glung 1969-15 to the 6th Troc m (South Codes	Correct and Arts Submanne Controval Way Wilstmann) - For unit assignments are bottom Rementa. 41th 15, 35ch 1959-AD 41th 15, 35ch 1959-AD
S1-2702 51-2705 Republi USAF Sin 51-2709 51-2710 51-2710 51-2710 51-2716 51-5924 51-7973 51-7981 51-7984 51-7984 51-7989 51-7989 51-7990	C119FFA C119FFA C119FFA Model Series C-119FFA C119FFA C119FFFA C119FFFA C119FFA	(Taiwan) - I Codes 3125 3174 3172 3210 3112 3210 3123 3195 3220 3160 3119 3206 3199 3161	Hiswatha Gootey For unit assignment Remarks	Returned to USAF Returned to USAF	S3-8132 Assigned These sq. These sq	C119G-84-KM to 101st TCS, Pin sachters reported to 119G-84 C119G-95 C119G-9	3139 glung 1969-15 to the 6th Troc m (South Codes	Cycline and An Substance Controval Way Wietnam) - For ant assignments see bottom Remotas 410
51-2702 51-2705 Republi USAF Sin 51-2709 51-2716 51-2716 51-5924 51-7978 51-7978 51-7978 51-7989 51-7989 51-7989 51-7996 51-6003 51-6003 51-6003 51-6003 51-6003 51-6006	C119F-FA C-119F-	(Talwan) Codes 3125 3174 3162 3112 3210 3123 3219 3220 3160 3119 3226 3196 3199 3181	Hiswatha Gootey For unit assignment Remarks	Returned to USAF Returned to USAF	S3-8132 Assigned These squ These squ USAF Sin 51-763 52-5892 52-5892 53-3145 53-3147 53-3167 53-3173 53-3165 53-3175 53-3165 53-3189 53-3189	C-119G-84-KM to 101st TCS, Pin- actives inposted in the control of	3139 glung 1969-15 to the 6th Troc m (South Codes	Viciniano - For unit assignments ser bottom Remarks - For unit assignments ser bottom Remarks - For unit assignments ser bottom - For unit assignments - For unit
\$1,2702 \$1,2705 \$1,2705 \$1,2705 \$1,2705 \$1,2709 \$1,2709 \$1,2709 \$1,2716 \$1,2716 \$1,2716 \$1,2716 \$1,7979 \$1,7984 \$1,7984 \$1,7989 \$1,	C119FFA	EW-G (Taiwan) Codes 3125 3174 3362 3172 3210 33123 3196 3220 3160 33119 3206 3181 3186 33199 3181	Hiswatha Gootey For unit assignment Remarks Storage	Returned to USAF Returned to USAF	S3-8132 Assigned These square for the square for t	C-119G-84-KW to 191st TCS, Pin- ladrons reported i Model/Series C-119G-FA C-119G-FA C-119G-FA C-119G-FA C-119G-95-FA C-11	3139 glung 1969-15 to the 6th Troc m (South Codes	Cycleme and An Subserime Curchesol Way Wilelmann) - Fire and assignments are bottom Rements 410 - Fire and assignments are bottom 410 - Fire and assignments are bottom 410 - Fire and assignments are bottom 410 - Fire and assignments are 410 - Fire
S1-2702 51-2705 S1-2705 S1-2705 S1-2705 S1-2705 S1-2710 S1-2716 S1-7276 S1-7276 S1-7276 S1-7276 S1-7276 S1-7276 S1-7276 S1-7278 S1-7278 S1-7284 S1-7284 S1-7285 S1-728	C119FFA C119FFA C119FFA C119FFA Ic of China Model Series C119FFA	BW-G (Taiwan) -1 Codes 3125 3174 3162 3210 3112 3210 3123 3196 3220 3140 3119 3206 3119 3206 3119 3206 3119 3207 3141 3207 3141	Hiswatha Gootey For unit assignment Remarks	Returned to USAF Returned to USAF	S3-8132 Assigned These square for the square for t	C-119G-84-KM to 101st TCS, Pin- ladron reported Illic of Vietna Model/Series C-119G-FA C-119G-FA C-119G-95 C-119G-9	3139 glung 1969-15 to the 6th Troc m (South Codes	Comment of the Subseriment Contributed Wing Viriellments)—For and assignments are betters 4:40%—5. Subst Michael AD 4:40%—6. Subst Michael AD 4:40
51-2702 51-2705 Republi USAF 511 51-2709 51-2709 51-2709 51-77	C 119F-FA	(Yalwan) -1 Codes 3125 3174 3162 3112 3210 3123 3162 3123 3162 3220 3160 3199 3206 3199 3206 3191 3181 3186 3181 3186 3181 3186 3181 3186 3181 3186 3181 3181	Hiswatha Gootey For unit assignment Remarks Storage	Returned to USAF Returned to USAF	S3-8132 Assigned These square for the square for t	C-119G-84-KW to 191st TCS, Pin- ladrons reported i Model/Series C-119G-FA C-119G-FA C-119G-FA C-119G-FA C-119G-95-FA C-11	3139 glung 1969-15 to the 6th Troc m (South Codes	Cycleme and An Subserime Curchesol Way Wilelmann) - Fire and assignments are bottom Rements 410 - Fire and assignments are bottom 410 - Fire and assignments are bottom 410 - Fire and assignments are bottom 410 - Fire and assignments are 410 - Fire
\$1-2702 51-2705 51-2705 51-2705 51-2706 51-2710 51-2711 51-2716 51-7271 51-7273 51-7273 51-7273 51-7281 51-7281 51-7285 51-7285 51-7286 51-728	C 119F-FA C 119F-FA C 119F-FA Ic of China Model Series C 119F-FA	BW-G (Talwan) -1 Codes 3125 3174 3162 3112 3210 3123 3195 3220 3199 3181 3206 3199 3181 3206 3199 3181 3206 3199 3181 3206	Hiswatha Gootey For unit assignment Remarks Storage	Returned to USAF Returned to USAF	S3-8132 Assigned These sq. These sq. USAF Sin 11-7863 S2-5862 S2-5862 S2-5862 S3-3167 S3-3168 S3-3167 S3-3173 S3-3175 S3-3186 S3-3194 S3-3166 S3-3002 S3-3003 S3-3000	C-119G-84-KM to 191st TCS, Pin- adrons reported Ilic of Vietna	3139 glung 1969-15 to the 6th Troc m (South Codes	Victoriam (-) For unit assignments are bacterial Victoriam (-) For unit assignments are bacteria 443 to 15, 50 to 15 to 16 t
51-2702 51-2705 Republi 51-2705 51-2705 51-2710 51-2710 51-2710 51-2710 51-2710 51-7979 51-7985 51-7985 51-7985 51-7986 51-8016 51-8016 51-8016 51-8016 51-8018	C 119FFA C 119FFA C 119FFA Ic of China Model Series C 119FFA	(Yalwan) -1 Codes 3125 3174 3162 3112 3210 3195 3220 3196 3220 3197 3206 3199 3206 3191 3206 3191 3206 3191 3206 3191 3206 3191 3206 3191 3206 3191 3206 3191	Hiswatha Gootey For unit assignment Remarks Storage	Returned to USAF Returned to USAF	S3-8132 Assigned These sq. Bepub USAF Sin 51-7963 52-59627 53-5147 53-3146 53-3157 53-3166 53-3189 53-3194 53-3020 53-3020 53-3021	C-119G-84-KM to 101st TCS, Presidente reported to 119G-84 C-119G-95 TCS, Presidente reported to 119G-95 TCS, P	3139 glung 1969-15 to the 6th Troc m (South Codes	Vicetnamy - For and assymmets are better Hammark 41371 S. South Missil AD 41371 S. South Miss
51-2702 51-2705 S1-2705 S1-2705 S1-2709 S1-2710 S1-2709 S1-2711 S1-7270 S1-727	C 119F-FA C 119F-FA C 119F-FA Ic of China Model Series C 119F-FA	(Talwan) -1 Codes 3125 3174 33162 3112 3210 3210 3210 33195 3220 33197 3206 33197 3207 33197 3207 33197 3207 33197 33197 33198 33197 3319 3319	Hiswatha Coofny For unit assignment Remarks Storage Storage	Returned to USAF Returned to USAF	53-8132 Assigned These sq. WSAF Sin 51-7863 52-5862 52-5862 53-5867 53-3146 53-3157 53-3167 53-3169 53-3189 53-3196 53-3196 53-3203 53-3218 53-3218 53-3218 53-3218 53-3218 53-3218 53-3218 53-3218 53-3218 53-3223	C-119G-84-MM TOS, Pin Lot 101st	3139 glung 1969-15 to the 6th Troc m (South Codes NG	Vicetnamy - For and assyments are better Wiretnamy - For and assyments are better 443m 1.5.5 and PMSH AD 443m 1.5.5 and PMS
51-2702 51-2705 FREPUBLI USAF Sin 51-2709 51-2710 51-2716 51-2716 51-7278 51-7278 51-7281 5	C 119FFA C 119FFA C 119FFA Model Series C 119FFA C 119FF	(Yalwan) -1 Codes 3125 3174 3162 3112 3210 3195 3220 3196 3220 3197 3206 3199 3206 3191 3206 3191 3206 3191 3206 3191 3206 3191 3206 3191 3206 3191 3206 3191	Hiswatha Gootey For unit assignment Remarks Storage	Returned to USAF Returned to USAF	53-8132 Assigned These sq. These sq	C-119G-84-KM to 101st TCS, Presidente reported to 101st TCS, Presidente reported to 101st TCS, Presidente reported to 119G-84 C-119G-84 C-119G-84 C-119G-85	3139 gluing 1569-15 to the 6th Troc m (South Codes NG	Vicetnamy - For set assignments are between Remoths 41071 15, 350 of Widdh AD 41071 15, 350 of W
51-2702 51-2705 VSAF Sin 51-2709 51-2710 51-2711 51-2709 51-2711 51-7973 51-7973 51-7973 51-7974 51-7984 51-7989 51-799 51-799 51-799 51-799 5	C 119F-FA C 119F-FA C 119F-FA Ic of China Model Series C 119F-FA	(Talwan) -1 Codes 3125 3174 33162 3112 3210 3210 3210 33195 3220 33197 3206 33197 3207 33197 3207 33197 3207 33197 33197 33198 33197 3319 3319	Hiswatha Coofny For unit assignment Remarks Storage Storage	Returned to USAF Returned to USAF	53-8132 Assigned These sq. WSAF Sin 51-7863 52-5862 52-5862 53-5867 53-3146 53-3157 53-3167 53-3169 53-3189 53-3196 53-3196 53-3203 53-3218 53-3218 53-3218 53-3218 53-3218 53-3218 53-3218 53-3218 53-3218 53-3223	C-119G-84-MM TOS, Pin Lot 101st	3139 gluing 1569-15 to the 6th Troc m (South Codes NG	Vireinamy - For unit assyments are bottom Wireinamy - For unit assyments are bottom 442h 15, 50 bit 1058 AU 442h 15,
51-2702 51-2705 Republi USAF Sin 51-2709 51-2709 51-2710 51-2710 51-2710 51-2710 51-2710 51-2710 51-2710 51-7290 51	C 119FFA C 119FFA C 119FFA Model Series C 119FFA C 119FF	(Talwan) Codes 3125 3125 3174 3162 3112 3195 3220 3196 3199 3206 3199 3206 3191 3206 3191 3206 3191 3181 3186 3191 3181 3186 3191 3181 3186 3191 3181 3181 3181 3181 3181 3181 3181	Hiswatha Coofny For unit assignment Remarks Storage Storage	Returned to USAF Returned to USAF	53-8132 Assigned These sq. These sq	C-119G-84-KM to 101st TCS, Presidente reported to 101st TCS, Presidente reported to 101st TCS, Presidente reported to 119G-84 C-119G-84 C-119G-84 C-119G-85	3139 gluing 1569-15 to the 6th Troc m (South Codes NG	Vicetnamy - For set assignments are between Remoths 41071 15, 350 of Widdh AD 41071 15, 350 of W

0.0100	C-119G-84-KM	413th TS, 53rd TW,5th AD	C-119G	Jul 1953	2		
3-8123		413th TS, 53rd TW,5th AD 413th TS, 53rd TW,5th AD	C-119G	Aug 1963	1		
18124	C-119G-84-KM		C-119G	Dec 1953	2		
18130	C-119G-84-RM	413th TS, 53rd TW,5th AD	C-119G	Feb 1954	8		
	C-119G-84-KM	413th TS, 53rd TW,5th AD	C-119G	Mar 1954	8		
-8133	C-119G-84-KM	413th TS, 53rd TW,5th AD	C-119G	Apr 1954	1		
	AC-119G	819th AS, 53rd TW, 5th AD	C-119G	1st quarter 1955	6	22	
5938	AC-119G	819th AS, 53rd TW, 5th AD	01190	ist quarter 1999	0	8.6	
-5942	AC-119G	819th AS, 53rd TW, 5th AD	Brazil				
3136	AC-119G	819th AS, 53rd TW, 5th AD	C-119G	3rd quarter 1963	10		
3145	AC-119G	819th AS, 53rd TW, 5th AD	C-119G	4th quarter 1963	1	11	
3170	AC-119G	819th AS, 53rd TW, 5th AD					
3178	AC-119G	819th AS, 53rd TW, 5th AD	French Indo-China			-	
	AC-119G	819th AS, 53rd TW, 5th AD	C-119C	1st quarter FY 1953	3	3	
3205	AC-119G	819th AS, 53rd TW, 5th AD	C-119B/C	1st quarter FY 1953	15	15	
-7B33	AC-119G	819th AS, 53rd TW, 5th AD	India				
18069	AC-119G	819th AS, 53rd TW, 5th AD	C-119F	1954	26	26	
18089	AC-119G	819th AS, 53rd TW, 5th AD	C-119G	2nd quarter 1963	15	15	
			0-1190	ziru quarier raco	10	10	
18114	AC-119G	819th AS, 53rd TW, 5th AD	Italy				
18115	AC-119G	819th AS, 53rd TW, 5th AD	C-119G	May 1953	3		
8123	AC-119G	819th AS, 53rd TW, 5th AD	C-119G	Jun 1963	3		
8131	AC-119G	819th AS, 53rd TW, 5th AD	C-119G	Jul 1953	9		
5864	AC-119K	821st AS, 53rd TW, 5th AD	C-119G	Aug 1953	5		
5889	AC-119K	821st AS, 53rd TW, 5th AD	C-119G	Sep 1953	2		
55910	AC-119K	821st AS, 53rd TW, 5th AD	C-119G	Dec 1963	3		
8911	AC-119K	821st AS, 53rd TW, 5th AD	C-119G	Jan 1954	8		
1,6926	AC-119K	821st AS, 53rd TW, 5th AD	C-119G	Feb 1954	2		
5940	AC-119K	821st AS, 53rd TW, 5th AD		Mar 1954	3		
88945	AC-119K	821st AS, 53rd TW, 5th AD	C-119G				
19962	AC-119K	821st AS, 53rd TW, 5th AD	C-119G	Apr 1954	1		
33154	AC-119K	821st AS, 53rd TW, 5th AD	C-119G	1st quarter FY 1954	1	40	
33187	AC-119K	821st AS, 53rd TW, 5th AD	Jordan				
33197	AC-119K	821st AS, 53rd TW, 5th AD	C-119K	1972	3	3	
3-3211	AC-119K	821st AS, 53rd TW, 5th AD					
3-7830	AC-119K	821st AS, 53rd TW, 5th AD	Morecco				
		821st AS, 53rd TW, 5th AD	C-119F/G	1st quarter FY 1962	3		
3-7831	AC-119K	821st AS, 53rd TW, 5th AD 821st AS, 53rd TW, 5th AD	C-119F/G	2nd quarter FY 1963	3		
3-7839	AC-119K		C-119F/G	1966	10	16	
3-7850	AC-119K	821st AS, 53rd TW, 5th AD	Norway				
3-7877	AC-119K	821st AS, 53rd TW, 5th AD	C-119F	1st quarter FY 1957	8	8	
3-7879	AC-119K	821st AS, 53rd TW, 5th AD	CHIEF	18t demant 1.1 1951			
3-7883	AC-119K	821st AS, 53rd TW, 5th AD	Spain				
38121	AC-119K	821st AS, 53rd TW, 5th AD	C-119F	3rd quarter FY 1956	10	101	
38145	AC-119K	821st AS, 53rd TW, 5th AD	Daniel Street China				
38148	AC-119K	821st AS, 53rd TW, 5th AD	Republic of China C-119B/C	414-114-114-114-114-114-114-114-114-114	3	3	
			C-1198(C	1st quarter 1963			
13h TS.	Tan Son Nhut Jan 1968-1975; 720	th RS Dec 1972-1975; 819th CS Sep 1971-1975;		1959	16	16	
	Dec 1972-1975. All units reported to		Republic of Vietnam				
			C-119G	1968	16		
he Perrol	a's Revublic of Vietnam's 918th ATE	Roperated C-119s between 1975 and 1988.	C-119G		6	22	
OUL	e a maporino di andicissi di dali Alli		AC-119G	1971	7	8.6	
			AC-119G	1972	17	24	
			AC-119K	1972	22	22	
				1972	66	ш	
			RC-119G#	1916			
			format; † These airple actually delivered; ‡	ystem changed from monthly anes were apparently returned An unknown number of BC-1 k of mission equipment they	by the 1st qua 19Gs were deli	rter of FY 1957, vered to South V	or were ne fetnam;
					Fair	hy c-s2 s c	2007)

Type

Brazil

C-82A

Belgium

C-110E

C-119F

C-119F

53,8090 C.119G.84,KM

53-8088 C-119G-84-KM

53-8089 C-119G-84-KM

53-8106 C-119G-84-KM

53,8109 C-119G-84-KM

53-8112 C-119G-84-KM

STRING CHISCALISM

\$3,8115 C-119G-84,8M

53,8117 C-119G-84-KM

413th TS, 53rd TW,5th AD To Vietnamese People's Air Force

A13th TS 55rd TW 5th AD

413th TS 53rd TW 5th AD

413th TS 53rd TW 5th AD

413th TS, 53rd TW,5th AD 413th TS, 53rd TW,5th AD

413th TS 53rd TW 5th AD

413th TS, 53rd TW,5th AD

413th TS, 53rd TW,5th AD

Mutual Defense Assistance Program (MDAP) Summary

Quantity Total

Dates*

Jan 1956

Oct 1953

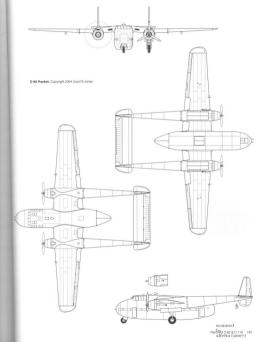
Dec 1953

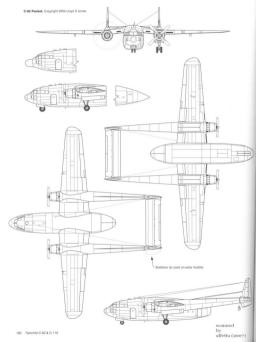
Civil Registered and Museum C-82s and C-119s in the United States

C-82 P	aunel			N53228 N57886	44-23036 45-57766	New Frontier Airlift Corp Linknown	
Reg No	USAF S/No	Owner	Location	N6233C	45-57827	LEBCA International, Inc	Mami, FL
				N6235C	45-57829	LEBCA International, Inc	Marri, FL
N107	44-23056	NACA/NASM	NAS Moffett, CA	N6236C	45-57780	Unknown	reduce, F.L.
N127E	45-57780	Unknown	Dereilct - Athens, Greece	N6240C	45-57734	Unknown	
N128E	45-57794	Unknown		N6241C	45-57902	Unknown	
V136E	44-22981	Unknown		N6243C	44-24030	Unknown	
V208M	45-57793	Interior Airways, Inc	Anchorage, AK	N6245C	44-23011	Unknown	
V209M	45-57795	Interior Airways, Inc.	Anchorage, AK	N6246C	44-23018	Linknown	
			Derelict - Fairbanks, AK	N6247C	45-57830	Leeward Aeronautical Sales, Inc.	Mani. FL
N2047	45-57814	TWA	Paris, France	N6769A	44-23043	Fairchild Hiller Corp	Hagerstown, MD
N2054A	45-57832	Donald B Sittman	Mami, FL	N6781A	45.57764	Fairchild Hiller Corp	Hagerstown, MD
V2055A	44-23023	Unknown		N6782A	44-23008	Fairchild Hiller Corp	Hagerstown, MD
V2059A	44-23058	L B Smith Aircraft Corp		N6845A	45-57792	Fairchild Hiller Corp	Hagerstown, MD
A08024	45-57734	Royal International Corp	Miami, FL	N6850A	44-23031	Fairchild Hiller Corp	Hagerstown, MD
42065A	45-57802	Royal International Corp	Miami, FL	N6856A	44-23012	Fairchild Hiller Corp	Hagerstown, MD
44752C	48-581	Northern Air Cargo, Inc	Anchorage, AK	N6857A	44-23032	Fairchild Hiller Corp	Hagerstown, MD
44753C	48-574	Northern Air Cargo, Inc.	Anchorage, AK	N6962A	44-23017	Fairchild Hiller Corp	Hagerstown, MD
44828V	44-23041	New Frontier Airlift Corp	Miami, FL	N6981A	44-57764	Fairchild Hiller Corp	Hagerstown, MD
N4829V	44-23029	M&F, Inc		N6985C	44-23046	New Frontier Airlift Corp	Phoenix AZ
N4830V	45-57763	Big Piney Aviation, Inc.		NEGREC	44-23015	Linknown	F1100104, PAC
V4832B	44-23026	Booth Leasing Corp		N6987C	44-23006	New Frontier Airlift Corp	Berkley, CA
V4833V	44-23031	New Frontier Airlift Corp	Miami, FL	HODGIC	***********	Steward-Davis, Corp	Los Angeles, CA
14834V	45-57733	Unknown		N6990C	44-23001	Walter Sopiata Collection	Lua rengensa, um
14962V	45-57767	Unknown		N6996C	44-23005	New Frontier Airlift Corp	Phoenix, AZ
V50958	44-23027	Unknown		N6997C	44-23006	New Frontier Airlift Corp	Phoenix, AZ
V5101B	45-57788	Unknown		1400010	44.59000	Pima County Air Museum	Tucson, AZ
V5102B	45-57782	Tanana Investment Corp		Nessec	44-23009	New Frontier Airlift Corp	Phoenix AZ
		Northern Air Cargo, Inc.	Anchorage, AK	N6999C	44-23033	New Frontier Airlift Corp	Phoenix, AZ
		Hawkins & Powers	Greybull, WY	N74038	44-23017	New Frontier Airlift Corp	Berkley, CA
I5103B	44-57778	Bankers Life and Casualty Co		N74039	45-57764	New Frontier Airlift Corp	Berkley, CA
I5104B	45-57776	Bankers Life and Casualty Co		N74041	44-23032	New Frontier Airlift Corp	Berkley, CA
V5105B	45-57775	Bankers Life and Casualty Co		N74042	44-23037	New Frontier Airlift Corp	Berkley, CA
¥51068	45-57773	Bankers Life and Casualty Co		N74043	44-23043	New Frontier Airlift Corp	Berkley, CA
45107B	45-57770	Bankers Life and Casualty Co		N74044	45-57792	New Frontier Airlift Corp	Berkley, CA
¥51088	45-57765	Bankers Life and Casualty Co		N74046	44-23008	New Frontier Airlift Corp	Phoenix, AZ
V5110B	45-57741	Bankers Life and Casualty Co		N74047	44-23012	New Frontier Airlift Corp	Phoenix, AZ
45111B	44-23053	Bankers Life and Casualty Co		N74048	44-23052	New Frontier Airlift Corp	Phoenix, AZ
I5112B	44-23051	Unknown		N74127	45-57807	New Frontier Airlift Corp	r reparent, ref.
V5113B	44-23050	Unknown	Scrapped at Miami, FL.	N7452C	48-581	Unknown	
V5115B	44-23048	Unknown		1614020	40.001	USAF Museum as 45-57735	Wright-Patterson AFB, Or
I5116B	44-23045	Unknown		N7453C	45.574	Unknown	migrir aseson are, or
451178	44-23039	L B Smith Aircraft Corp		1674000	40.014	McChord AFB Museum	McChord AFB, WA
45118B	44-23034	Aviation Facilities	Miami, FL	N74810	45-57780	Linknown	MUCHUIU APD, WA
¥51198	44-23025	Aviation Facilities	Miami, FL	N75398	44-22962	Unknown	
N5120B	45-57793	Unknown		N75399	44-23004	Unknown	
45121B	45-57794	Bankers Life and Casualty Co		N75585	45-57756	Unknown	
451228	45-57795	Bankers Life and Casualty Co		N75888	45-57807	Unknown	
451238	45-57808	Bankers Life and Casualty Co		N78408	44-23052	New Frontier Airlift Corp	
15124B	45-57817	Bankers Life and Casualty Co		N7849B	44-23040	M&F. Inc	Anchorage, AK
151258	45-57825	Bankers Life and Casualty Co		147,0400	****5040	Dereict	Fairbanks, AK
151268	45-57800	Bankers Life and Casualty Co		N7850B	44.23054	Unknown	naruares, AA
5127B	45-57803	Bankers Life and Casualty Co		N7851B	44-23034	Unknown	
51288	45-57804	Bankers Life and Casualty Co		N7853B	45-57771	Unknown	
5203B	45-57778	Unknown		N7854B	45-57815	Leeward Aeronautical Sales, Inc.	Marri D
				14/0040	-V-V(0)2	LECTURE OF THE CANADA C	Mami FL Scanned

			Miami, FL				Powers Aviation	Greybull, WY
	45-57783	Leeward Aeronautical Sales, Inc.	Miami, FL Miami, FL	NOCONIE.	131695*	Delta Asso		Anchorage, AK
	45-57777	Leeward Aeronautical Sales, Inc.	Mami, FL Mami, FL	NBSU1W	131660	John S Rat		Eagle River, AK
76578	45-57812	Leeward Aeronautical Sales, Inc.					& Associates	Anchorage, AK
V7884C	44-23013	New Frontier Airlift Corp	Phoenix, AZ	NB504W NB504X	53-8153			
N8009E	44-23027	Flying B, Inc	Anchorage, AK	NBSOAX	53-8142		raft Leasing racific Transport	Anchorage, AK Anchorage, AK
		Hawkins & Powers Aviation	Greybull, WY		51-8129		conc rransport Community Assoc.	Stebbins, AK
METULE	45-57814	Briles Wing and Helicopter, Inc.	Los Angeles, CA	N8504Y			ammuney Assoc. Splic Transport	Anchorage, AK
		Northern Pacific Transport	Anchorage, AK	N8504Z	53-7836			
		D&G Inc	Greybull, WY		Section 1	Everts Air I	ruei racific Transport	Fairbanks, AK Anchorage, AK
		Hawkins & Powers, Inc.	Greybull, WY	N8505A	53-8076		Powers Aviation	Greybull, WY
	45-57780	Unknown			******		Powers Aviation	Greybull, WY
NX542111	45-57832	Unknown		N9682	22115†			
1 1N dee		it registered under Experimental co	adion	N8832 N9027K	22123† 53-8073		Powers Aviation racific Transport	Greybull, WY Anchorage, AK
New Color	COS OF BUILDING	i isguioso once Esperimento co		NOUZ/N	33-00/3	Brooks Fu		Fairbanks, AK
						Classic Air		Anchorage, AK
C-82 F	lying Box	car		N90267	53-8154		imbler Air Transport	Anchorage, AK
				N90267 N90268	53-8154	Starbird, In		Reno, NV
Reg No	USAF S/No	Owner	Location	N90268	53-3206	Starbird, Ir		Reno, NV
			Married WW					Greybull, WY
N1040E	53-7849	Dross Metals, Inc	Tucson, AZ	N961S N966S	22120† 22107†		Powers Aviation Powers Aviation	Greybull, WY
N131DM	131664*	Dross Metals, Inc	Tucson, AZ		22107† 49-0133	Hawkins & Unknown	Fuwdrs Aviation	Greyour, mr
N1394N	1311673	John S Reflett	Eagle River, AK	N9955F	49-0133 51-8263	Unknown		
N13626	131669	Unknown		N9956F	51-8263 131688*	Unknown		
	49-0132	Hemet Valley Flying Service	Hernet, CA Hernet, CA	N99574 N9959F	51-2608	Unknown		
N13744	49-0199	Hemet Valley Flying Service		N9961F	51-2610	Unknown		
N13745	48-0322	Hemet Valley Flying Service	Hernet, CA Hernet, CA	N9961F N9966F	51-2606	Unknown		
N13746	48-0152	Hemot Valley Flying Service		N99674	131688		isbrod Museum	Pueblo, CO
M1394N	131673*	Delta Associates, Inc	Anchorage, AK	N99574	131688	Fred E We	iscrod Museum	Pueblo, UU
		John S Reflett	Eagle River, AK	# LIGHT II	ICHIC DUAN	No: † RCAF	Daviel No.	
M15501	22130†	Hawkins & Powers Aviation	Greybull, WY	COMIC	JUNIO DUNIN	160, 1 1004	Julian 145.	
		(Used in remake of Flight of the P						
N15502	22114†	Hawkins & Powers Aviation	Greybull, WY					
N15505	221011	Hawkins & Powers Aviation	Greybull, WY	Muse	um (and	Stored) A	ircraft	
N15506	22105†	Hawkins & Powers Aviation	Greybull, WY		*		Location	
N15508	22134†	Hawkins & Powers Aviation	Greybull, WY	Type	Serial No		Location	
N175ML	131677*	Marine Lumber, Inc	Nantucket, MA	Argentin				
		Mid-Atlantic Air Muserm	Reading, PA	C-82A	LV-FHZ		National Air Museum.	Ruenns Aires
N2700	51-2700	John P Downey	East Middlebury, VT	0001	2.114			
N3003	22106†	D&G Inc	Greybull, WY	Belgium				
		Hawkins & Powers Aviation	Greybull, WY		CP-10/CP-	18	Melsbroek, Brussels	
N3267U	131700*	DMI Aviation, Inc.	Tucson, AZ	C-119G	CP-46		Musée Royale de l'Ar	mée, Brussels
		Comutair	Gering, NE					
		In storage	Nairobi, Kenya	Brazil				
		(Used in remake of Flight of the P		C-82A	PP-CEL (4)	5-57783)	Air Force Museum, B	
N3559	22118†	Hawkins & Powers Aviation	Greybull, WY	C-119G			Campos Dos Afonsos	
10560	22132†	Hawkins & Powers Aviation	Greybull, WY	C-119G	FAB 2305		Museu Aerospacial, C	Campos Dos Atonsos
N37483	53-7884	Bud's Flying Service	Rising City, NE					
		Unknown	Oklahoma City, OK	Canada				
N37484	53-3144	American Freight Co	Laredo, TX	C-82A	CF-XCL (4	4-23107)	National Aero. Collec	tion. Uplands, Uttawa
N\$7636	53-8150	D&G Inc	Greybull, WY	Columb	in.			
		Mike Ivers	Yakutat, AK	C-82A	HK-426		Eldorado Airport, Bor	vda
10835	221331	Aero Union, Corp.	Chico, CA	COLA	111-420		Laurence Airport, Buy	pres.
13335	221131	Hawkins & Powers Aviation	Greybull, WY	Greece				
	131690*	Tobacco Road Farms, Inc.	Ronda, NC	C-82A	N127E		Athens Airport, Athen	8
148543	131677	Unknown						
N48706		Hawkins & Powers Aviation	Greybull, WY	India				
N6215R		Hawkins & Powers Aviation	Greybull, WY	C-119F	IK450		Indian Air Force Mus	
NS216R		Hawkins & Powers Aviation	Greybull, WY	C-119F				School, Agra AB (stored)
	221161	Hawkins & Powers Aviation	Greybull, WY	C-119F	IK463			School, Agra AB (stored)
	52-6050	Unknown						
	22116†	J B Hubbard Aviation Museum		Italy				
N7051U		Marine Air Ground Museum	MCAS El Toro, CA	C-119J	51-8113/4	6.50	Turin International Air	
16091	221221	Hawkins & Powers Aviation	Greybull, WY	C-119F			Military Air Museum,	Vigna di Valle
18092	22103†	Hawkins & Powers Aviation	Greybull, WY	C-119J			Treviso	
18093	221111	D&G Inc	Greybull, WY		526020/46		Rivolto	
		Hawkins & Powers Aviation	Greybull, WY		52-6029/4		Udine-Campolormid	0
18094	22135†	D&G Inc	Greybull, WY	C-119G	53-3200/4	6-38	Pisa-San Giusto	seanned
								Fairchie C-82 & C-119 alfetta (2007

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Proposed Teacher	C-119G	53-7862/CNA-MN	Kenitra						
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Afford Security Afford Sec	Republic	of China (Taiwan)							
March Folds	C-119F	51-8106/3190	Air Force Academy, Gang Shan						
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Additional Content Segment Additional Content Segment Segment Additional Content Segment	South Kr	orea							
Description Control	C-119F	53-3199	Korean War Memorial, Seoul						
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Color	C-82A	N209M							
2008	C-82A	N4745C	USAF Museum, Wright-Patterson AFB, OH						
Column C	C-82A	N5102B	Greybull, WY (fuselage dumped)						N62410
250	C-82A	N7849B	Fairbanks Airport, AK	44-23018	N6246C	45-574	N7453C	45-57803	N51278
2006 2007 The Maximum Entity and seed infraging on Septime (1994) 247-200 200004 247-200 247-2	C-82A	N8009E	Greybull, WY (fuselage dumped)						N51288
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Mode	- 1001								N78579
April	040.0			44-23029	N4829V	45-57783	N4830V	45-57814	N2047
March 2017				44-23031	N4833V	45-57764	N6781A	45-57814	N97018
Reg	PHU-S		Plas Museum, Fort Gampber, KT					45-57815	
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Too: The first Indian C-119G, IK450, was delivered by MATS' 1739th Ferrying Squadron. W Loyd

Above: This 316th TCG C-82A-FA, s/n 45-575, has yellow trim. A T-6 Texan was taxying up behind the Packet. W T Larkins via MSqt D W Menard

Front cover: Paratroops saddled up and headed to the forward door of C-119G-35-FA, s/n 52-6057 from the 464th TCG. The green trim indicates the 778th TCS.



alfetta (2007)